EPA-456/R-97-003 September 1997 http://www.epa.gov/ttn/uatw

MACT IMPLEMENTATION STRATEGY

U.S. Environmental Protection Agency Office of Air Quality Planning and Standards Research Triangle Park, North Carolina 27711

Acknowledgments

Members of the Air Toxics Implementation Strategy Development Team, Advisors, and special participants contributing to the preparation of this document are:

ATIS Development

Office

Team Member

Brian Beals EPA Region IV

Karen Blakemore Louisiana Department of Environmental Quality (DEQ)

Belinda Breidenbach Office of Enforcement and Compliance Assurance/Office of

Compliance

Bob Colby Association of Local Air Pollution Control

Officials/Chattanooga/Hamilton County Air Pollution Control

Bureau

Deborah Elmore Information Transfer and Program

Integration Division/Information Transfer Group

Charlie Garlow Office of Enforcement and Compliance Assurance/Office of

Regulatory Enforcement

Kent C. Hustvedt Emission Standards Division/Waste and Chemical Processes Group

Bliss Higgins The State and Territorial Air Pollution Program

Administrators/Louisiana DEQ

Vasu Kilaru Emissions, Monitoring and Analysis Division/Air Quality Trends

Analysis Group

Linda Lay Office of Enforcement and Compliance Assurance/Office of

Regulatory Enforcement

Sheila Milliken Information Transfer and Program Integration Division/Integrated

Implementation Group

Doug Neeley EPA Region IV

Lee Page EPA Region IV

Joanna Swanson Information Transfer and Program Integration Division/Operating

Permits Group

Acknowledgments - Continued

Acknowledgments - Continued				
ATIS Development Team Member	<u>Office</u>			
Sara Terry	Office of Air Quality Planning and Standards/Planning, Resources and Regional Management Staff			
Tony Wayne	Emission Standards Division/Policy, Planning and Standards Group			
Gil Wood	Information Transfer and Program Integration Division/Program Review Group			
<u>Advisors</u>	<u>Office</u>			
Karen Blanchard	Information Transfer and Program Integration Division/Integrated Implementation Group			
Racqueline Shelton	Information Transfer and Program Integration Division/Program Review Group			
ATIS Development Special Participant	<u>Office</u>			
Julie Andresen	Information Transfer and Program Integration Division/Program Review Group			
Phillip Barnett	EPA Region IV			
Gerri Pomerantz	Information Transfer and Program Integration Division/Program Review Group			
Andy Smith	Information Transfer and Program Integration Division/Program Review Group			
Ingrid Ward	Information Transfer and Program Integration Division/Program Review Group			

Review Group

Mary Ann Warner

Information Transfer and Program Integration Division/Program

Table of Contents

Section	<u>on</u>		<u>Page</u>
List o	f Acronyn	ents	vii
1.0	1.1 I 1.2 (Purpose of this Document	1-31-3
2.0	Roles A	nd Responsibilities Of Implementors	. 2-1
3.0	3.1 I 3.2 G 3.3 S	Information Exchange Questions and Reaching Resolution Scheduling Tracking	3-23-33-4
4.0	4.1 II 4.2 II 4.3 G 4.4 S 4.5 G 4.6 II 4.7 II 4.8 G	ts of a Successful Implementation Strategy Education Identifying the Source Population Subject to the MACT Standard Outreach Small Business Needs Compliance Assurance Enforcement Reference Materials Other 4.8.1 Resources 4.8.2 Permitting	. 4-1 . 4-3 . 4-4 . 4-6 . 4-9 . 4-9 4-10
5.0	5.1	Assessment of MACT Implementation Plan Assessment of MACT Standards 5.1.1 Baseline Implementation Materials and Enhanced Implementation Materials 5.1.2 Interview with MACT Development Team and Representative Implementors 5.1.3 Diagnostic Questionnaire 5.1.4 Flow Charts for Enhanced Efforts The Tool Development Agreement Additional Elements of a Specific MACT Implementation Plan	. 5-2 . 5-2 . 5-4 . 5-5 . 5-6

Table of Contents (continued)

Appendices

- Appendix A. Interview Questions for MACT Development Team and Implementors
- Appendix B. Tool Development Agreement
- Appendix C. Cost Estimates for Education and Outreach
- Appendix D. Unified Air Toxics Website Information
- Appendix E. AIRS Facility Subsystem Information
- Appendix F. Example Specific Model Implementation Plan (for Ethylene Oxide Commercial Sterilizers MACT Standard)
- Appendix G. Source Identification Cookbook
- Appendix H. Example Inspection Checklists
 - H1. Multimedia Inspection Checklist for Dry Cleaning Facilities
 - H2. Inspection Checklist for Chromium Electroplating and Anodizing
- Appendix I. Contacts
 - II. Regional Air Toxics Coordinators
 - I2. OAQPS and OECA NSPS and NESHAP Contacts
- Appendix J. Small Business Regulatory Enforcement Fairness Act (SBREFA)
- Appendix K. Master Compliance Timeline for Part 63 NESHAP
- Appendix L. MACTRAX

List of Tables

	<u>Page</u>
1-1	Primary Implementation Roles During MACT Processes 1-6
2-1	OAQPS Roles and Responsibilities
2-2	OECA Roles and Responsibilities
2-3	Regional Office Roles and Responsibilities
2-4	State/Local/Tribal Roles and Responsibilities
5-1	Model Tool Development Agreement
	List of Figures
1-1	A Roadmap to Successful MACT Implementation
3-1	Many Opportunities for Information Exchange
3-2	Communication Agenda
3-3	Example MACT Standard Implementation Timeline
3-4	Implementation Issue Resolution Process
5-1	Process for Developing a SMIP 5-10
5-2	Questionnaire for Determining Whether Materials Beyond the Baseline Level are Needed
5-3	Flow Chart For Determining If Enhanced Technical Training Is Necessary 5-13
5-4	Flow Chart For Determining If Enhanced Source ID/Notification Is Necessary 5-14
5-5	Flow Chart For Determining If Enhanced Public Outreach Is Necessary 5-15
5-6	Flow Chart For Determining If Enhanced Small Business Assistance Is Necessary

List of Acronyms and Abbreviations

AFS AIRS Facility Subsystem

AIRS Aerometric Information Retrieval System

AQSSD Air Quality Strategies and Standards Division

ATIS Air Toxics Implementation Strategy

CBEP Community-Based Environmental Programs

EMAD Emissions Monitoring and Analysis Division

ESD Emission Standards Division

ITPID Information Transfer and Program Integration Division

MACT Maximum Achievable Control Technology

MACTRAX MACT Tracking System

MWC Municipal Waste Combustion

MWI Medical Waste Incineration

NESHAP National Emission Standards for Hazardous Air Pollutants

NETI National Enforcement Training Institute

OAQPS Office of Air Quality Planning and Standards

OECA Office of Enforcement and Compliance Assurance

OGC Office of General Counsel

ORE Office of Regulatory Enforcement

PRG Program Review Group

PRRMS Planning, Resources, and Regional Management Staff

PTE Potential to Emit

RATC Regional Air Toxics Coordinator

List of Acronyms and Abbreviations (continued)

RO Regional Office

SBAP Small Business Assistance Program

SBREFA Small Business Regulatory Enforcement Fairness Act

SMIP Specific MACT Implementation Plan

STAPPA/ALAPCO State and Territorial Air Pollution Program Administrators/Association of

Local Air Pollution Control Officials

TDA Tool Development Agreement

TTN Technology Transfer Network

GLOSSARY

Air Toxics - Any air pollutant for which a national ambient air quality standard (NAAQS) does not exist (i.e., excluding ozone, carbon monoxide, PM-10, sulfur dioxide, nitrogen dioxide, and lead) that may reasonably be anticipated to cause cancer, developmental effects, reproductive dysfunctions, neurological disorders, heritable gene mutations or other serious or irreversible chronic or acute health effects in humans.

Delegation - The act of conferring upon a state or local agency, the ability to implement and enforce federal standards and requirements. The EPA retains concurrent enforcement authority.

Education - Activities, materials, and tools prepared mainly to help the implementors understand the standard, locate sources, or otherwise implement the standard.

Enabling Materials - Activities, items, or tools prepared mainly for the industry being regulated.

Implementation - Putting into action, carrying out, and completing the activities that promote compliance with the MACT standard.

Implementation Materials - Activities, items, or tools prepared mainly for implementors with specific information about the standard and the source being regulated.

Implementation Plan - A plan of action designed to promote compliance with the MACT standard by identifying concrete measures, including preparation of implementation materials.

Implementors - The government agencies responsible for ensuring compliance with the MACT standard or its approved equivalent.

MACT Partnership - An agreement between the EPA and a region/state/local agency or tribal entity to share the responsibility of MACT standard development. EPA works with STAPPA, ALAPCO and others to identify opportunities for partnerships for source category specific regulations. The "Share-a-MACT" process is led by EPA with contribution from state and local agencies and industry. The "Adopt-a-MACT" process is led by a region, state or local agency or tribal entity with minimal contributions from EPA headquarters. EPA headquarters reviews, approves, and promulgates the standard.

Maximum Achievable Control Technology (MACT) Standards - Emissions limitations developed under section 112(d) of the Clean Air Act (National Emissions Standards for Hazardous Air Pollutants). The limitations are based on the best demonstrated control technology or practices in similar sources to be applied to major sources emitting one or more of the listed toxic pollutants. This term is sometimes incorrectly used as a colloquialism to refer to other technology-based emissions standards developed by the Emission Standards Division/OAQPS.

Outreach - Activities, materials, or tools prepared mainly to locate affected industries or to educate those industries and the general public.

SBREFA Guidance Document - A document to help small businesses understand the requirements of a standard. Such documents are required by the Small Business Regulatory Enforcement Fairness Act when a standard may have significant effects on small businesses. See Appendix J.

Specific MACT Implementation Plan (SMIP) - A specific MACT Implementation Plan that has been agreed upon by all involved parties, which clearly identifies tools, implementation materials, roles and responsibilities of implementors, and a schedule for the implementation of a MACT standard. Contains a Tool Development Agreement.

Tool Development Agreement (TDA) - A table of implementation materials potentially developed for each MACT standard with assignment of the lead group for each item and participants in the development of each item.

1.0 INTRODUCTION

Section Summary

The purpose of this document is to present a strategy for activities that, if followed, should be helpful in ensuring that MACT standard emissions reductions are achieved. This strategy is not mandatory, but does represent the collective wisdom of many regulators and implementors as to activities that should be worthwhile. Many of the activities are those that EPA, states and local agencies have already been using successfully for some standards and should be successful for other standards as resources allow. This is a "living" document. That is, as more implementation experience is obtained, EPA will make appropriate revisions. Communication and coordination among the implementors is essential.

Section 112 of the Clean Air Act (CAA) has nineteen subsections [section 112(a) through section 112(s)] with requirements pertaining to protection of the public and the environment from adverse effects resulting from the use of and exposure to air toxics. The subsections include many specific requirements regarding federal, state, local, and tribal programs (e.g., section 112(l), which applies to development and approval of state air toxics programs and delegation of federal authorities; or section 112(r), which applies to accidental releases of air toxics).

Separate from the effort to prepare this document, the Office of Air Quality Planning and Standards (OAQPS) has developed a draft air toxics management model which addresses the interrelationships of these nineteen subsections and their requirements. The draft model incorporates setting goals, identifying necessary emission reductions, implementing emission reduction and pollution prevention plans, and evaluating results. Currently, OAQPS is in the process of developing the goals and performance measures. Other major efforts by OAQPS include integration of section 112 air toxics requirements with other CAA programs such as the Title V Operating Permit Program and the New Source Review/Prevention of Significant Deterioration Program (NSR/PSD).

The Air Toxics Implementation Strategy (ATIS) development team was originally formed to develop a comprehensive plan of activities that should be helpful for implementors to ensure that the emissions reductions from standards developed under section 112 are actually achieved. However, since the air toxics management model is still draft and the goals and performance measures are still under development, the team decided this document should focus on the implementation of Maximum Achievable Control Technology (MACT) standards, the cornerstone of the federal air toxics program. That is, two very high priorities for EPA are the development and implementation of MACT standards. Many of the elements in the strategy are intended to add administrative efficiencies and reduce duplicative efforts in the MACT implementation process. Some of the early tasks of the ATIS development team focused on developing checklists and other tools to ensure that implementation aspects are fully considered during the development of MACT standards (e.g., efficient and effective integration with Title V and other programs). However, those tools are not the focus of this document and thus, are not appended.

Rather, this document focuses on several issues related to MACT implementation, including the development of implementation plans, communication and coordination issues, and allocation of different implementation tasks to specific federal, state, local, tribal, and other entities. This document is available to all affected government entities and may serve as a template or model for how the various stakeholders may work together to effectively and efficiently implement MACT standards. Table 1-1 provides a general overview of different phases of MACT development and implementation and identifies the primary roles of the responsible entities during each phase. Figure 1-1 presents graphically the MACT implementation process.

Other important air toxics issues such as integration of MACT implementation with other air toxics programs (e.g., residual risk standards) and integration of air toxics programs with criteria pollutant programs are not addressed in this document, but rather will be discussed in a future document.

1.1 Purpose of this Document

The purpose of this document is to provide a strategy for successful implementation of MACT standards. This document provides helpful information for efficient and effective promotion of compliance with MACT standards or their approved equivalents, by helping implementors decide what should be done, who should do it, and when it should be done. This document was developed for implementors (government entities tasked with ensuring compliance with MACT standards); however, industry and the public may find some of the information useful as well. This document includes recommendations for how to prepare a Specific MACT Implementation Plan (SMIP) for a MACT standard. This document describes the elements of such plans and roles and responsibilities of the implementors. It also includes a systematic communication process for promoting an adequate understanding of the MACT standards and for coordinating implementation activities. This document is intended to assist implementors by outlining critical success factors and by identifying recommended materials and activities.

These recommendations are flexible. This document provides information for the implementors to identify appropriate implementation activities and ways to accomplish these activities. EPA anticipates that the implementors will consider the information presented in this document while they structure their strategy to meet their specific needs. For example, a relatively simple standard affecting few sources in only one state may require less effort in development of outreach brochures and other implementation tools than a complex standard with numerous, small, affected sources located in many states.

1.2 Organization of this Document

Section 2.0 of this document describes the roles and responsibilities of implementors and Section 3.0 briefly describes communications that need to occur systematically for implementation efforts to have the highest likelihood of success. Section 4.0 describes implementation elements that should be considered when developing a SMIP. Section 5.0 describes a method for determining which implementation elements are appropriate for a SMIP and describes the preparation of a Tool Development Agreement (TDA). Table and figures are found at the end of

the appropriate section to avoid interruptions in the text. Example interview questions are included (see Appendix A) to help in deciding which implementation materials and activities are appropriate for each MACT standard.

Reference materials and examples that implementors may find useful when developing SMIPs are included in the appendices of this document. For example, a SMIP for the Ethylene Oxide Commercial Sterilizers standard is included, as well as inspection checklists for dry cleaning and chromium electroplating facilities.

1.3 Strategy Review and Measuring Success

The strategy presented in this document was developed by the ATIS development team along with the managers of their respective organizations as participants, and others as informal contributors. This strategy is considered a "living document" and comments are welcome. In addition, information on air toxics implementation successes and example implementation tools that can be shared with others is especially welcome. EPA and STAPPA/ALAPCO strongly encourage state, local, and tribal entities to share their implementation tools and place them on the EPA/STAPPA/ALAPCO Unified Air Toxic Website (see Appendix D for further information about the website). Comments and information may be sent to the following address:

Mr. Gil Wood
Program Review Group (MD-12)
Information Transfer and Program Integration Division
Office of Air Quality Planning and Standards
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711
Email: wood.gil@epamail.epa.gov

Implementation of MACT standards is included in the EPA Annual Performance Plans and Annual Program Performance Reports, as required by the Government Performance and Results Act and as a priority in the Performance Partnership Agreements between EPA and the states. Mechanisms are being developed to measure and track implementation results. Also, EPA will evaluate the usefulness of this document, and update or revise it as needed. A critical success factor for implementation activities is that the affected sources and implementors understand the

rules, policies, and protocols they are required to implement, including the compliance requirements and when necessary, the appropriate enforcement response policies. Thus, the availability of tools to assist in gaining this understanding and in assuring compliance is an important part of this strategy. This document serves as one of the tools and as a reference to other tools that should assist the implementors in their efforts.

Table 1-1. Primary Roles During MACT Development and Implementation

Phase	Headquarters Role	Regional Office Role	State/Local/Tribal Role	Private Sector
Data Gathering	Form MACT development team Determine data needs	Participate in MACT Partnerships and Work Groups	Participate in MACT Partnerships and Work Groups	Provide representative data
Proposal	Develop MACT Help develop SMIP	Participate in MACT Partnerships and Work Groups Review/Comment Lead development of SMIP	Participate in MACT Partnerships and Work Groups Review/Comment Help develop SMIP Plan outreach efforts	Review/Comment
Promulgation	Lead preparation of TDA Complete development of MACT	Participate in preparation of TDA Encourage delegation	Participate in preparation of TDA Implement	Participate in preparation of TDA Develop compliance plan
Compliance	Track implementation	Track implementation	Conduct outreach activities Conduct compliance assistance activities Ensure compliance	Submit initial notification Comply
Continuous Compliance	Provide guidance on residual risk	Track compliance Enforce, as needed	Track compliance Inspect Enforce, as needed	Continuously comply Keep records, monitor, and certify annually

SMIP = Specific MACT Implementation Plan

TDA = Tool Development Agreement



Figure 1-1. A Roadmap to Successful MACT Implementation

1-7

2.0 ROLES AND RESPONSIBILITIES OF IMPLEMENTORS

Section Summary

This section identifies key players in the implementation process and defines their roles and responsibilities.

This section provides recommended general roles and responsibilities of implementors in the MACT implementation process. It is important for the implementors to communicate clearly with each other and agree to specific roles and responsibilities for each MACT standard. Regardless of who is ultimately responsible for each implementation task, it is important to thoroughly identify the tasks to be completed, who will complete them, and the schedule for completing them. The Office of Air Quality Planning and Standards (OAQPS) Program Review Group (PRG) will take the lead in ensuring that a timely and systematic process is established. Also during MACT development, PRG will conduct an interview with the MACT development team lead and representative implementors using the list of questions presented in Appendix A or similar questions to make a preliminary determination of expected implementation needs.

The details of this section are primarily contained in Tables 2-1 through 2-4, which identify and assign the numerous roles and responsibilities recommended to implement a MACT standard. Although the implementors may agree to different roles and responsibilities for a specific MACT, the rationale behind these recommended roles and responsibilities is explained in this section.

Successful implementation of MACT standards is a large undertaking and requires significant time and resources. First, there should be well-defined emission standards that achieve the requirements of the CAA, are consistent with EPA goals, and are designed to be implemented as efficiently and effectively as possible. All of the stakeholders, but especially the regional offices and state, local, and tribal entities, should consider implementation aspects while the standards are being developed. Ideally, there will be agreement among all of the stakeholders on the standards and implementation aspects, and there will be a good faith effort by industry to comply. To

bridge the gap between MACT standard development and industry-wide compliance, implementors (in particular EPA [OAQPS, Office of Enforcement and Compliance Assurance (OECA), Regional Offices], and state, local, and tribal entities) should complete three broad-based tasks:

- Identify the affected regulated sources;
- Inform the affected regulated sources so that they may determine which requirements apply to them, and understand how to comply with the requirements; and
- Monitor and assure compliance.

The ultimate responsibility for completing these three tasks is generally delegated to the state, local, or tribal entity. Considering the burden on the implementors and the similarity of their needs, it is prudent for them to share the development of implementation tools and other information, where possible. The primary groups typically responsible for MACT standard implementation support are:

- Emission Standards Division (ESD)/OAQPS/EPA;
- Information Transfer and Program Integration Division (ITPID)/OAQPS/EPA;
- Emissions Monitoring and Analysis Division (EMAD)/OAQPS/EPA;
- EPA Regional Offices;
- Office of Regulatory Enforcement (ORE)/OECA/EPA;
- Office of Compliance (OC)/OECA/EPA; and
- Air Office of state, local, and tribal entities (including both environmental agencies and small business assistance offices).

To help the permitting authorities ensure that the three broad-based implementation tasks mentioned above are successfully completed, the tasks are further subdivided into well-defined subtasks that are assigned to specific parties. These subtasks and assignments are detailed in Table 2-1, OAQPS Roles and Responsibilities; Table 2-2, OECA Roles and Responsibilities;

Table 2-3, Regional Office Roles and Responsibilities; and Table 2-4, State and Local Offices Roles and Responsibilities. The roles and responsibilities detailed in Tables 2-1 through 2-4 focus primarily on activities that take place during or soon after MACT standard development.

Note that while Tables 2-1 through 2-4 are detailed and explicit, they are intended to be flexible. That is, the implementors should carefully consider all of the recommendations in this MACT implementation strategy and agree on changes as appropriate to fit their specific circumstances. Nonetheless, these tables provide an initial plan of action that identifies subtasks and assignments currently envisioned for implementation of a MACT standard. Implementor experiences have demonstrated that a detailed initial plan, ongoing review of execution of the plan, and feedback mechanisms for adjustments to the plan are prudent for effective implementation.

Table 2-1. OAQPS Roles And Responsibilities

Activities	ITPID	ESD	EMAD	AQSSD	PRRMS
Develop MACT	Provides input on: - Integration with other programs, as needed - Potential to Emit - § 112(l) issues	Develops MACT's that achieve the requirements of the CAA, are consistent with EPA goals, and are designed to be implemented as effectively and efficiently as possible	Provides input on test methods and monitoring	Reviews MACT data for coordination with future residual risk standards such as Great Waters Programs, Urban Air Toxics Strategy, etc.	Promotes Regional office and state participation through memorandum of agreement and performance partnerships
Prepare SBREFA Compliance Assistance Guides and other small business outreach materials for area source standards and small businesses	Provides input and coordinates with other Small Business assistance efforts and assists with distribution of materials	Develops documents with input from OECA on compliance assistance activities	Provides input, as necessary (e.g., source testing and monitoring)	Provides input, as necessary (e.g., health and environmental effects)	Provides input, as necessary (e.g., planning and resources)
Prepare a Specific MACT Implementation Plan (SMIP) for each standard that includes: - How to identify sources - Summary of requirements - Applicability tables - Compliance checklist - Permit requirements	Leads team effort to develop SMIP according to MACT Implementation strategy that clarifies roles and lays out process for setting priorities and systematic communication	Provides team member Ensures technical accuracy of SMIP	Provides team member Provides input on source test methods and monitoring	Provides team member	Provides team member
Develop training materials and classes on newly promulgated standards	Provides vehicle for training and develops course materials	Provides technical experts to lecture and review materials	Provides technical experts to lecture and review materials relating to source testing and monitoring	Provides scientific experts to lecture and review materials relating to health and environmental effects	Provides development plan, expertise, and Regional office coordination (e.g., Desk Officers)
Issue specific implementation guidance where needed (e.g., section 111(d)/129 State Plans for Municipal Waste Combustors)	Prepares guidance (documents or policy memoranda)	Provides technical experts to participate in development of supporting guidance	Provides technical experts as appropriate	Provides experts to answer health and environmental effects questions, when needed	Coordinates with ITPID on policy and guidance availability Desk Officer assures communication with the Regional office

AQSSD = Air Quality Strategies and Standards Division EMAD = Emissions, Monitoring and Analysis Division

ESD = Emission Standards Division

ITPID = Information Transfer and Program Integration Division OECA = Office of Enforcement and Compliance Assurance PRRMS = Planning, Resources, and Regional Management Staff
SBREFA = Small Business Regulatory Enforcement Fairness Act

Table 2-1. OAQPS Roles And Responsibilities (continued)

Activities	ITPID	ESD	EMAD	AQSSD	PRRMS
Coordinate efforts with other implementing offices such as OECA, Regional offices, states, locals, and tribes	Identifies obstacles to implementation, takes steps to overcome obstacles, facilitates conference calls, workshops, visits, etc.	Participates as needed, answers questions on technical and policy aspects of rules	Participates as needed, provides technical expertise as appropriate	Participates as needed, provides technical expertise, as appropriate	Participates as needed, provides input on Regional office, state, local and tribal needs
Report on National Progress in meeting goals	Prepares reports and provides system operator for information management system Helps develop goals, review progress, refine goals, and overcome obstacles	Establishes goals for MACT standards and performance measures - determines what reports are needed - receives reports Leads development of goals and priorities, reviews progress, refines goals, and overcomes obstacles. Ensures coordination of priorities among program offices, Regions, OECA and states, local and tribal entities.	Helps develop goals, review progress, refine goals, and overcome obstacles	Helps develop goals, review progress, refine goals, and overcome obstacles	Helps develop information systems and encourages participation of regions, states, local and tribal entities Helps develop goals, review progress, refine goals, and overcome obstacles
Develop and maintain communication networks	Provides and maintains Internet website and coordinates responses as needed	Provides information on MACT for website Responds to questions	Provides information for website Responds to questions	Provides information for website Responds to questions	Provides information for Internet websites in coordination with ITPID
Prepare enabling documents, and implementation documents and tools	Coordinates the preparation of implementation documents and tools Reviews for "Readability"	Develops enabling documents for industry, as necessary Provides input to ITPID for implementation documents and tools	Provides input on source testing and monitoring as appropriate	Provides input on health and environmental effects as appropriate	Provides input on readability and relationship to overall planning and management

AQSSD = Air Quality Strategies and Standards Division EMAD = Emissions, Monitoring and Analysis Division

ESD = Emission Standards Division

ITPID = Information Transfer and Program Integration Division OECA = Office of Enforcement and Compliance Assurance PRRMS = Planning, Resources, and Regional Management Staff
SBREFA = Small Business Regulatory Enforcement Fairness Act

Table 2-1. OAQPS Roles And Responsibilities (continued)

Activities	ITPID	ESD	EMAD	AQSSD	PRRMS
Ensure MACT Delegations and approval of state rules and programs under Section 112(l)	Coordinates Program and Rule Equivalency reviews with other Divisions, OECA, and Regional offices	Provides expertise on MACT rule specifics and equivalency	Provides expertise on test methods and monitoring as needed	Provides expertise as needed	Coordinates with Regional offices
Participate in monthly Air Toxics Implementation calls with EPA Regions to exchange relevant experiences, to help other implementors, and to resolve issues	Coordinates EPA participation in monthly calls	Participates in monthly calls as needed	Participates in monthly calls as needed	Participates in monthly calls as needed	Participates in monthly calls as needed
Provide guidance on Title V permitting and other means to ensure emission reductions	Provides guidance on permitting and other means to ensure emissions reductions	Provides expertise on MACT rule specifics and flexibility	Provides expertise on test methods and monitoring	Provides expertise as needed	Coordinates with Regional offices

AQSSD = Air Quality Strategies and Standards Division EMAD = Emissions, Monitoring and Analysis Division

ESD = Emission Standards Division

ITPID = Information Transfer and Program Integration Division OECA = Office of Enforcement and Compliance Assurance

PRRMS = Planning, Resources, and Regional Management Staff SBREFA = Small Business Regulatory Enforcement Fairness Act

Table 2-2. OECA Roles And Responsibilities

Office Of Regulatory Enforcement (ORE)	Office Of Compliance (OC)	National Enforcement Training Institute (NETI)
Participates in development of goals, priorities, and tracking of results.	Participates in development of goals, priorities, and tracking of results.	Participates in development of goals, priorities, and tracking of results.
Develops enforcement response policy for toxics, including penalty policies, as needed		
Provides enforcement assistance to Regional offices	Provides compliance assistance to Regional offices	Provides enforcement training
	Reviews and provides input on SBREFA guides and enabling documents, as appropriate	
	Provides compliance checklists and implementation manuals for inspectors	Conducts inspector training
Answers questions from Regional office on applicability determinations	Answers questions from Regional offices on applicability determinations (coordinates with OAQPS and OGC as appropriate). Compiles answers on Applicability Determination Index (ADI) on website	
Supports development of section 112 rules, including MACT standards to ensure enforceability	Supports development of MACT standards to ensure enforceability	
Participates in regular calls and meetings with OAQPS and Regional offices	Participates in regular calls and meetings with OAQPS and Regional offices	
	Tracks compliance in conjunction with Regional offices, states, local and tribal entities	

OAQPS OGC = Office of Air Quality Planning and Standards

= Office of General Counsel

SBREFA Small Business Regulatory Enforcement Fairness Act

Table 2-3. Regional Office Roles And Responsibilities

Activities	Programs Branch	Compliance Branch
Processes 112(l) submittals	Processes submittals	
Delegates MACT standards	Encourages delegation Completes delegation Tracks delegation	
Conducts outreach to states and sources	Conducts outreach as needed to states and sources	Conducts outreach to states and sources as needed
Provides compliance assistance to states and sources		Provides compliance assistance to states and sources as needed
Ensures that agencies track and report compliance		Assists agencies with tracking and reporting compliance
Conducts inspections and takes enforcement actions		Inspects and enforces as necessary
Implements standards and requirements prior to delegation and where states and tribes do not take delegation	Implements as necessary	Implements as necessary
Makes 112(g) determinations when necessary	Implements 112(g) as necessary	Implements 112(g) as necessary
Reviews state plans under section 112(d) and/or section 129	Reviews plans as necessary	Reviews plans as necessary
Works with OAQPS, OECA and states with program goals	Assists OAQPS, OECA, and states with goals as necessary	Assists OAQPS, OECA, and states with goals as necessary
Reviews Title V permits and other means to ensure MACT's are implemented	Reviews permits and other means as necessary	Reviews permits and other means as necessary
Reports to Headquarters on status of program implementation	Provides Headquarters reports on program implementation	
Provides guidance and responds to technical and policy questions from states, local, and tribal entities on toxics-related issues	Provides assistance as necessary	Provides assistance as necessary
Provides assistance to states on applicability determinations	Coordinates applicability determinations with OECA, OAQPS, and OGC	Provides input to Programs Branch
Submits determinations in appropriate format to Applicability Determination Index	Supplies Applicability Determination Index information as necessary	Supplies Applicability Determination Index information as necessary
Assists Headquarters in rule and guidance document development, including Adopt-A-MACT	Assists Headquarters as necessary with rule and guidance document development	Assist Headquarters as necessary with rule and guidance development
Participates in monthly Air Toxics calls with OAQPS, OECA, other Regional offices, and state, local, and tribal entities	Participates in monthly air toxics calls	Participates in monthly Air Toxics calls

^{*} The apportioning of the activities within the regional office in this chart is an example that will vary according to the organizational structure of the specific entities.

Table 2-4. State/Local/Tribal Roles And Responsibilities

Activities	Air Toxics Section	Permits Section	Small Business Assistance Program	Enforcement/Surveillance Section
Participate in MACT and other Section 112 program development activities	Provides expertise and real-world experiences Participates in possible pilot testing of specific proposed MACT's at Work Group closure Participates in Presumptive MACT and Adopt-a-MACT programs	Provides expertise and real-world experiences	Provides expertise and real-world experiences	Provides expertise and real-world experiences
Review schedule of upcoming regulations and requirements and plan work load	Plans work load	Plans work load	Plans work load	Plans work load
Review regulations, fact sheets, implementation guidance, and other relevant information on the STAPPA/ALAPCO/EPA Unified Air Toxics Website.	Leads state activities and efforts and requests input from other sections as needed	Provides input to Air Toxics Section as needed	Provides input to Air Toxics Section as needed	Provides input to Air Toxics Section as needed
Delegate authority	Determines if delegation will be requested Coordinates with Regional office Requests delegation - delegation agreement - state rulemaking	Coordinates with Air Toxics Section		
Locate and identify sources	Uses procedures in Source Identification Cookbook to find sources Coordinates with Regional office to share information	Provides helpful information to Air Toxics Section	Assists in identifying sources	Provides assistance when necessary

NESHAP = National Emission Standard for Hazardous Air Pollutant OECA

= Office of Enforcement and Compliance Assurance

Table 2-4. State/Local/Tribal Roles And Responsibilities (continued)

Activities	Air Toxics Section	Permits Section	Small Business Assistance Program	Enforcement/Surveillance Section
Conduct outreach and training for affected sources, as well as other compliance assistance activities	After sources are identified, - distributes EPA guidance - coordinates with Small Business Assistance Program - contacts sources - surveys sources	Provides input to Air Toxics Section	Sets up and provides input and support in outreach and training for small businesses Visits sites	Provides assistance when necessary
Make applicability determinations such as Potential to Emit determinations	Same system as Part 61 NESHAP (i.e., coordinates with other sections and Regional office per memorandum of agreement) Inputs information into the Applicability Determination Index on website Develops compliance tracking system Coordinates with OECA and regional office	Provides input to Air Toxics Section	Provides assistance when necessary	
Make compliance determinations and regulatory interpretations	Coordinates with Enforcement Section and Regional office Tracks determination and provides information to Regional offices as necessary	Provides input as necessary		Coordinates with Air Toxics Section and Regional office

STAPPA/ALAPCO

Table 2-4. State/Local/Tribal Roles And Responsibilities (continued)

Activities	Air Toxics Section	Permits Section	Small Business Assistance Program	Enforcement/Surveillance Section
Permit sources	Provides training and information and answers questions Reviews permit prior to approval	Writes permit	Provides assistance when necessary	Reviews permit prior to approval
Make Section 112(g) determinations	Develops state program and implements it accordingly	Coordinates with Air Toxics Section	Coordinates with Air Toxics Section	Coordinates with Air Toxics Section
Conduct compliance inspections	Provides mechanism to include sources in inspection schedule Provides training/assistance when necessary Reviews compliance reports		Coordinates with EPA Federal Small Business Assistance Program contacts to provide compliance assistance	Conducts source inspections, writes inspection report, and recommends enforcement action
Take enforcement actions where appropriate	Submits, follows through, and tracks enforcement requests to Enforcement/ Surveillance Section		Coordinates with Federal Small Business Assistance Program Has no involvement in enforcement activities May give 90 days to 1 year "corrective period"	Coordinates with Air Toxics Section on recommended enforcement action Takes enforcement action

STAPPA/ALAPCO

Table 2-4. State/Local/Tribal Roles And Responsibilities (continued)

Activities	Air Toxics Section	Permits Section	Small Business Assistance Program	Enforcement/Surveillance Section
Review permit applications, plans, and reports	Assigns MACT standards to staff	Reviews applications and issues construction/reconstruction permits	Provides input when necessary	Provides assistance in contacting source or sharing knowledge of standard as needed
Evaluate testing and monitoring results, and compliance extension waivers	Reviews and tracks requests and reports			
Review initial notifications, implementation plans, and periodic reports	Requests additional information as needed			
	Recommends enforcement as needed			
Provide assistance to small businesses	Coordinates with Small Business Assistance Program	Provides input as needed	Provides assistance as needed	Provides assistance when necessary
Report to EPA Regional office on progress of implementing program and identify obstacles	Discusses with EPA obstacles requiring attention prior to submittal of report	Provides input to Air Toxics Section as needed	Provides input to Air Toxics Section as needed	Provides input to Air Toxics Section as needed
	Prepares report			
	Coordinates with other sections			
Participate in monthly Air Toxics Implementation calls with Regional office and monthly calls with STAPPA/ALAPCO to exchange relevant experiences and to help implementors resolve issues	Coordinates and participates in monthly calls	Participates in monthly calls as needed	Participates in monthly calls as needed	Participates in monthly calls as needed

STAPPA/ALAPCO

Table 2-4. State/Local/Tribal Roles And Responsibilities (continued)

Activities	Air Toxics Section	Permits Section	Small Business Assistance Program	Enforcement/Surveillance Section
Track compliance and reports to databases	Provides input to the Enforcement/Surveillance Section as needed	Provides input to the Enforcement/Surveillance Section as needed	Provides input to the Enforcement/Surveillance Section as needed	Leads state efforts to track compliance

^a All of the activities presented here should be included in the roles of the state, local, and tribal entity office. The apportioning of the activities within the state, local, or tribal offices in this chart is an example that will vary according to the organizational structure of the specific entities.

STAPPA/ALAPCO

3.0 SYSTEMATIC COMMUNICATION

Section Summary

This section discusses the protocol for successful MACT implementation strategy communications, which include PRG's roles, including the lead for coordinating implementation tool development activities, how information should flow among stakeholders, the process to resolve issues, the process to schedule and track progress, and the Regional Air Toxics Coordinator's roles after promulgation.

This section describes the recommended Systematic Communication protocols necessary for successful completion of the MACT implementation strategy. These recommended protocols serve to ensure that stakeholders transfer critical information in a complete and timely manner.

The need for systematic protocols is underscored by several factors:

- The Air Toxics Program is broad-based, affecting numerous stakeholders in the public, industrial, and regulatory sectors.
- The large number and variety of stakeholders makes communication inherently difficult to manage; systematic communication will ensure the transfer of critical information that might otherwise be lost via informal communication.
- The MACT standards will be written and implemented over several years; the lessons learned during the development and implementation of early MACT standards will facilitate the development and implementation of later MACT standards.

The following subsections describe the elements of the communication system and provide suggestions for executing and monitoring individual information management tasks. Prior to promulgation, the Program Review Group (PRG) has the primary responsibility for planning and coordinating the communications process. They should encourage open and timely communication among the responsible parties so that the implementors and their managers can reach consensus on implementation activities.

3.1 <u>Information Exchange</u>

Figure 3-1 schematically illustrates the pathways of information exchange in managing MACT implementation issues. As shown in the figure, there are numerous participants in the communication process, including EPA, regulated sources, state and local agencies, tribal entities, and the public. Information flows to and from each of these entities throughout the implementation process through such means as internal and external EPA documents, MACT rule development dockets, the Federal Register, electronic bulletin board systems, electronic mail, internet websites, technical assistance calls, public meetings, and live and videotaped workshops.

While Figure 3-1 emphasizes that the information flows to and from many stakeholders, Figure 3-2 shows what information is exchanged. Some of the items shown in Figure 3-2 (such as monthly meetings of OAQPS Division Directors) are associated with the ongoing overall management of air toxics programs, while other items (such as training and outreach) may be associated with a specific MACT implementation effort. Regardless of whether the items shown in Figure 3-2 are considered part of the overall management and communication system or part of an individual MACT implementation effort, successful implementation rests on coordination of these efforts. The EPA Regional Air Toxics Coordinators have agreed to serve as a team to ensure good communication and to discuss and resolve issues as necessary among OAQPS, OECA, OGC, regional offices and the state/local/tribal entities.

The EPA/STAPPA/ALAPCO Unified Air Toxics Website is an invaluable means for information exchange. It provides air toxic pollution information in a centralized location on the internet, and is a source of information for the general public, federal, state and local governments, and sources. The housing of information in an easily accessible, centralized location greatly encourages sharing information in order to reduce duplication of effort. The Unified Air Toxics Website contains six different areas of information (Basic Facts, EPA Rules and Implementation, Pollutants and Sources, Technical Resources, EPA Programs, and State and Local Agency Programs) that are described in detail in Appendix D. All implementors should continually review the information on the website for possible applications to their planned tasks

and should make their own implementation tools available to others in order to maximize efficiency and effectiveness.

3.2 **Questions and Reaching Resolution**

Before promulgation of a standard, ESD usually has the primary responsibility for developing the standard, which includes responsibility for integrating issues related to Title V, NSR/PSD, compliance and enforcement, etc. Upon agreement between ESD and PRG, PRG will have the lead in coordinating the tool development efforts among the implementors for specific MACT standards with the highest priority implementation needs.

After promulgation, the Regional Air Toxic Coordinators coordinate implementation efforts, including the management of technical and policy questions from states/local/tribal entities, and discussion with the MACT development teams leads and/or implementation teams. It is expected that questions or issues may arise throughout the MACT implementation process. These issues should be resolved at the lowest level possible, (e.g., among the active implementors or the Regional Air Toxics Coordinators) but to the degree that they cannot be resolved at one level, they should be elevated as quickly as possible to the level at which they can be resolved.

Industry should direct their technical and policy questions to state and local agencies. Most questions should be answered by the state and local agencies by reading the MACT standard, enabling documents, and implementation documents. To the degree that additional information or guidance is needed, the state and local agencies may in turn direct their questions to EPA regional offices. The EPA regional office personnel should coordinate these responses with their Regional Air Toxic Coordinators. The Regional Air Toxic Coordinators should coordinate with the Regional Air Toxic Coordinator's Team and subsequently to the MACT development team lead as necessary. OECA provides assistance to the Regional Air Toxic Coordinators, the regional offices, and state and local agencies for applicability determinations, inspection coordination, and compliance support, when necessary.

This post-promulgation communication system is derived from the principle that questions should be answered by the authorities closest to the affected parties, that is, those that are most likely to know the details of the specific situation, including state and local rules and policies that may be relevant. The resolution process should consider the communication system described in this document to ensure that the roles and responsibilities of the implementors are executed (see Tables 2-1 through 2-4). EPA expects most questions to be answered at the local, state, tribal, or regional office levels. This process is shown graphically in Figure 3-4. If necessary, the Air Toxics Task Force (key managers in OAQPS, OECA, OGC, regional offices, and state/local/tribal entities) can assist in resolving issues across the stakeholder's offices and has agreed to meet on an as-needed basis. Prior to standard promulgation, OAQPS has the lead responsibility for ensuring that unresolved issues are presented to the Air Toxics Task Force, when necessary. This would be the responsibility of the Regional Air Toxic Coordinators after standard promulgation.

3.3 Scheduling

Timeliness is critical in the systematic communication process. Implementation activities should begin prior to promulgation and continue through compliance deadlines set forth in the standard. The earlier the process begins, the more likely that necessary elements will occur. For example, ITPID and ESD met to consider implementation aspects of the Medical Waste Incinerator Emission Guidelines over one year prior to promulgation and the Implementation Team kickoff meeting was six months prior to promulgation.

Figure 3-3, Example MACT Standard Implementation Timeline, provides a generic schedule for executing education, source population identification, compliance assurance, and enforcement activities. The timeline in the figure begins with the effective date for a MACT standard and continues through five "periods" marked by initial notification, substantive compliance dates, performance tests, notification of compliance status, and compliance and continuing periodic reports. This model timeline serves as an example and should be revised as appropriate to meet specific implementation needs.

3.4 Tracking

Tracking activities and progress is another critical issue in the systematic communication process. PRG/ITPID will maintain an internal database that tracks their SMIP subtask commitments and the preparation of materials (preparers and reviewers). ITPID has developed and will maintain the EPA/STAPPA/ALAPCO Unified Air Toxics Website as a vehicle for many implementors to provide information about their activities and products. The Planning, Resources, and Regional Management Staff has developed MACTRAX (see Appendix L) to be a simple, easy-to-use system for states and regions to track their overall status on implementation (i.e., delegations of MACT standards, source notifications received, and controls installed and operating). Also, over the next few years, the AIRS Facility Subsystem (AFS) will be re-engineered and will be an easy-to-use tool for EPA and states to track compliance and emissions and prepare reports.

As implementation efforts are completed and individual sources come into compliance with a specific MACT standard, the Regional Air Toxic Coordinators should identify follow-up action items, as necessary. The Regional Air Toxic Coordinators should also provide feedback to the MACT implementors in order to enhance the development of implementation materials and improve the implementation process for other standards not yet completed or fully implemented.

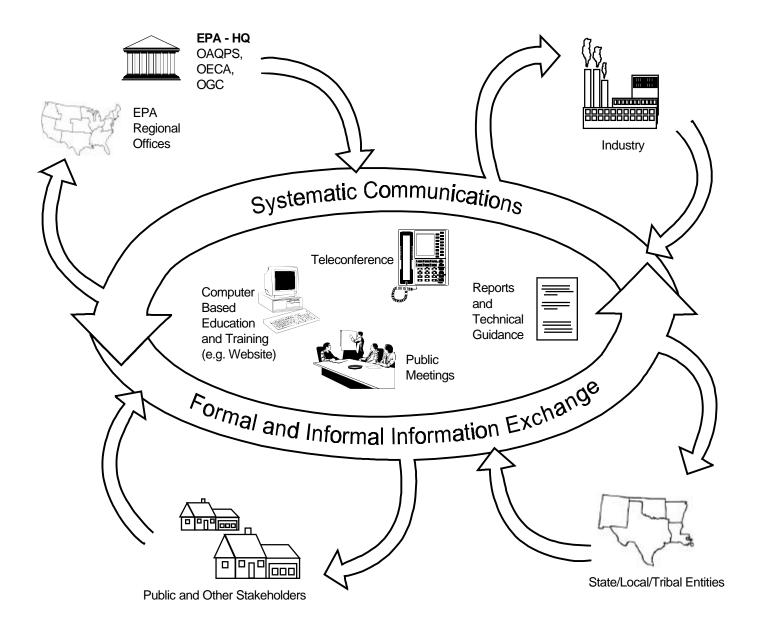


Figure 3-1. Many Opportunities for Information Exchange

OAQPS Internal

DD/ADD/GL (Monthly)

- Review Progress/Plans/Budgets
- Set Priorities
- Identify Stakeholder Interests
- Resolve Problems

OD (Quarterly)

- Review Progress
- Set Priorities
- Resolve Cross-office Issues

Implementation Team (Ongoing)

Staff Support as Necessary,
 Considering Resources and Priorities

OAQPS/OECA/ Regional Offices

Staff Level Calls (Monthly and as Needed)

- Resolve Implementation Issues
- Develop Implementation Recommendations
- Track and Report Progress
- Resolve Issues at Lowest Organizational Level Possible

OAQPS/ Regional Offices

Visit (Annual)

- Highlight Successes
- Review Progress
- Identify Obstacles and Solutions

Semi-Annual Reports

Report Progress

DD/APM/DO Calls (Monthly)

Agenda as Appropriate

DD/APM/DO Meeting (Quarterly)

Agenda as Appropriate

OAQPS/OECA

DD (Quarterly)

- Review Progress/Plans/Budgets
- Set Priorities
- Resolve Problems

OAQPS/OGC/OECA Regional Offices/ State/Local/Tribes

Toxics Task Force (As Needed)

- Review Progress/Plans
- Set Priorities
- Resolve Issues

STAPPA Air Toxics Call (Monthly)

Agenda Set for Each Call

OAQPS Planning Management Retreat (Annual)

- Review Progress
- Set Priorities
- Adjust Plans

"Aqueduct"/Brown Summit Working Meeting on Air Toxics Implementation (Annual)

- Identify Staff Level Implementation Issues
- Resolve Staff Level Implementation Issues

Air Toxics Implementation Conference (Annual)

- Review Progress with a Wide Audience
- Provide Training and Outreach

OAQPS/OECA/ Regional Offices/Public and Regulated Community

Website (Ongoing)

 Continual Dissemination of Information - Regulations/Contacts

Outreach Efforts (Ongoing)

- Workshops/Seminars
- Brochures/Pamphlets

DD = Division Directors

ADD = Associate Division Directors

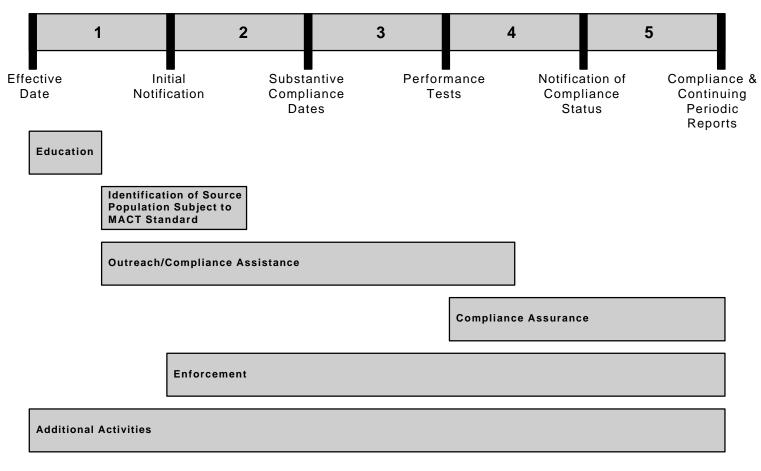
GL = Group Leaders

OD = Office Directors

APM = Air Program Managers

DO = Desk Officers

Figure 3-2. Communication Agenda



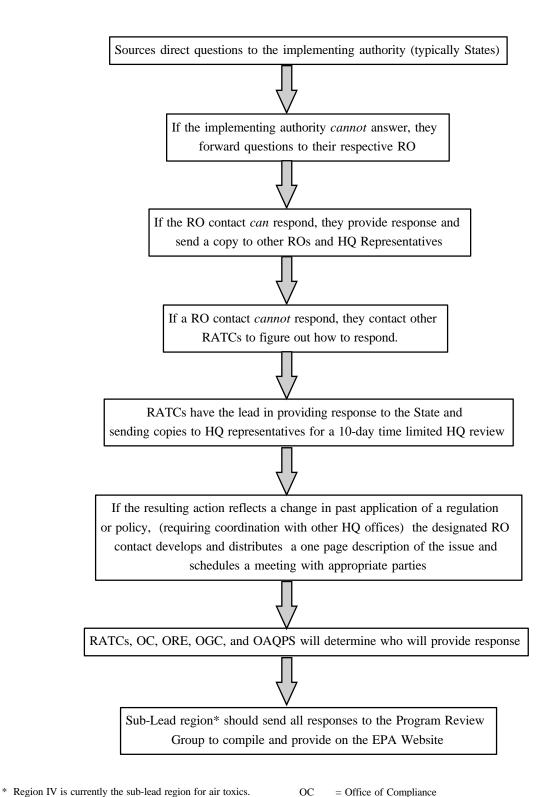
Source: Model Implementation Plan for MACT Standards Draft No. 5 - March 7, 1997

Figure 3-3. Example MACT Standard Implementation Timeline

For existing sources, Period 1 is usually 120 days, and for new sources, Period 1 is usually 120 days from startup; however, an individual standard may specify a much longer timeframe.

- For existing sources Period 2 may be up to three years, but new sources generally must comply at startup. In other words, new sources usually do not have a Period 2.
- Period 3 is usually 180 days from the compliance date.
- Period 4 is usually 60 days.
- Period 5, measured as the time before the first periodic report is due, may be three, six, or twelve months, and subsequent reporting periods may be adjustable depending upon the standard.
- Also note that the entries for each phase indicate a potential duration; it is always advisable to execute the phases
 as expeditiously as possible. For example, the source population identification phase may extend past the initial
 notification date as these notifications may identify more sources, but the much of the work for this phase should
 be completed well before this date.

Figure 3-3. Example MACT Standard Implementation Timeline (Continued)



RO = Regional Office ORE = Office of Regulatory Enforcement
HQ = Headquarters OGC = Office of General Counsel
RATC = Regional Air Toxics Coordinator OAQPS = Office of Air Quality Planning and Standards

Figure 3-4. Implementation Issue Resolution Process

4.0 ELEMENTS OF A SUCCESSFUL IMPLEMENTATION STRATEGY

Section Summary

Considerations for a successful strategy such as education, source population identification, outreach, small business issues, compliance assurance, enforcement, reference materials, available resources, and permitting issues are discussed.

The elements recommended for consideration and inclusion in any implementation effort are described in this section. Examples of how the elements are actually used in a Specific MACT Implementation Plan (SMIP) are presented in Section 5.0. This section specifically describes education, source population identification, outreach, small business needs, compliance assurance, enforcement, and how these elements are critical considerations in any strategy. These elements are described in more detail in the following paragraphs.

4.1 Education

For purposes of this strategy document, education refers to educating the implementors rather than educating the affected sources and the public, which is part of outreach. However, for many rules, some of the sources of information and activities described below may serve the goals of both education and outreach.

An important source of information is the SMIP which is prepared prior to promulgation of each MACT (see Section 5.0). The SMIP will provide a summary of the rule and an action plan for implementing the specific standard through all phases of implementation from education through enforcement. The SMIP, written for the implementors, would propose specific procedures for implementation associated with "trigger" dates within the standard such as notification dates, compliance dates, reporting intervals, and stack test dates.

The SMIP should be targeted for implementors, and should be as user-friendly as possible, avoiding regulatory language in favor of more common language where possible. A good example, the draft implementation plan for the Ethylene Oxide Commercial Sterilization Facilities MACT standard, is included in this document as Appendix F. The materials in the SMIP should use standard policies and procedures as much as possible and highlight significant differences or issues. This is important because the state agencies, permit writers, inspectors, and other staff have resource limitations. Materials in the SMIP do not replace the rule; if there are any legal issues, the rule takes precedence. However, the rule should not be solely relied on because of the need to quickly and efficiently transfer the needed information.

Even though the plan will provide a useful written summary for an implementing agency, some training may also be necessary. EPA's traditional training courses for MACT standards, primarily teleconference satellite courses, are excellent in fulfilling this need. EPA plans to arrange these courses at optimum times for those standards that have the greatest need.

The implementors will be asked many questions that may be answered based on the educational materials and training discussed above. EPA will also provide assistance to the implementor for specific questions that are not covered in the materials discussed above. To facilitate the process, the regional offices will identify a contact person for each standard or a central contact who can then transfer the specific question to the appropriate regional office person. In turn, appropriate OECA, OGC, and OAQPS contacts (see Appendix I) should be identified and be available to the regions to address unique questions. Thus, there should be a confirmed link at each level of the information ladder from EPA headquarters to the regions and to the states.

To ensure national consistency to the appropriate degree and still allow for site-specific applications as appropriate, periodic conference calls or electronic mail exchanges between the contacts for a specific standard should be held following rule promulgation to exchange questions and answers. The regional offices are expected to regularly communicate with the state, local, and tribal entities in their region. Regional offices should also help build a body of frequently

asked questions and answers for sharing among the implementors. For questions and answers that are not straightforward, the Regional Air Toxics Coordinators should discuss options and seek input and/or review from OECA, OGC, and OAQPS as appropriate. To maintain consistency, these questions and answers should be discussed and drafted among the group, and approved by the delegated authority. They should also be made available via the Unified Air Toxics Website. In addition, the implementing agencies should take advantage of the EPA's and STAPPA's electronic services.

As mentioned before, a SMIP could include lists of available resources such as EPA Internet websites and websites of the states. In addition to providing access to official guidance documents and formal response to questions, both EPA and STAPPA have electronic means to share draft responses and issue papers among the implementors. Using such means to share information can reduce the risk of an implementor responding incorrectly because of a lack of understanding of the question. Sharing information is also important for reducing overlapping or conflicting implementation efforts.

4.2 <u>Identifying the Source Population Subject to the MACT Standard</u>

Identifying a regulation's affected source population is not always a clear process, but is a necessary step during the early implementation of the rule. For some regulations that affect only large facilities, this will not be a concern because most state or local programs are aware of all the large facilities in their jurisdiction. However, in other cases, identifying the population may be a daunting task if sources are numerous, small, or collocated. To simplify this process, EPA has prepared a "Cookbook" to guide agencies through various identification techniques using a screening process based on available data. The Cookbook was pilot tested in several states and the results are included in the final version. The Cookbook is included as Appendix G to this document.

Even after finding potential sources, some questions may remain about a rule's applicability. While these questions generally need to be addressed on a case-by-case basis, EPA

can provide information to assist in these efforts. The Applicability Determinations Index is a useful tool to determine if a question has been previously addressed. EPA also can produce example applicability determinations. For example, for the Hazardous Organic NESHAP (HON), three applicability determination examples were produced which were very helpful and possibly prevented some erroneous determinations.

Throughout the source identification process, the delegated agency will be the official decision maker on applicability determinations. The delegated agency should maintain good communications with EPA according to the terms of the delegation.

4.3 Outreach

Outreach is targeted for the general public and regulated community. Outreach opportunities include using literature to disseminate information about an industry; attending training courses, trade shows, or meetings; and coordinating with the Small Business Assistance Program. In many cases, outreach efforts and source population identification are occurring at the same time. For example, the Small Business Assistance Program may have information on affected sources to provide to implementors as well coordinating with implementors to provide information to affected small businesses.

Literature may include fact sheets EPA prepared during rule development or pamphlets produced by the EPA regional office or a state/local/tribal entity to address specific needs of the permitting authority or geographic area. EPA also considers preparing plain-English guides (or other languages) for the regulations, especially those involving area sources or those affecting small businesses. For example, the draft Plain-English Guide for Perchloroethylene Dry Cleaners was a very useful and popular document at a Southern Dry Cleaners Show.

The SMIP should contain sections about pollution prevention opportunities so that the regulated sources can be educated in that topic and pollution prevention activities can be implemented as part of the compliance scheme. Technical summary sheets should have a section

that highlights pollution prevention options in the rule and/or voluntary pollution prevention measures the affected source category could take. The plan may also list regional contacts for pollution prevention information.

Education efforts such as training courses may also provide outreach opportunities.

Some courses targeted for the implementors may also be appropriate for a public audience and vice versa. To that end, implementors may be able to attend seminars sponsored by industry organizations. Often EPA provides technical assistance to these seminars through expert speakers and other materials. These seminars create excellent opportunities to train the implementors while gaining some of the industry's perspective on the rules.

Other training opportunities include satellite downlink courses. These courses are usually presented by EPA through a university grant and often have trade associations as joint sponsors. These courses involve EPA, state, and industry representatives, and the resulting videotapes can be distributed to an even wider audience.

Implementing agencies should also contact industry associations to arrange outreach efforts. EPA can facilitate this effort by including names of associations contacted during standard development and identify any assistance or information the associations may offer. Such information can be included in the SMIP. The implementing agency should also offer to attend trade shows and address association meetings. Many times the organizations desire the regulatory agency's presence and will provide free space within the shows for displays about the standards.

Just as during the education phase, the implementors should take full advantage of the information available electronically. The EPA and state websites, and potential telephone hotlines would particularly be useful in outreach efforts, if these resources are properly equipped and advertised.

The implementing agency should also remember that the time frame for completing the source population identification and outreach may be up to three years or as short as six months.

The SMIP will quickly identify this time limit and provide recommendations an implementing agency may consider to make appropriate plans.

4.4 <u>Small Business Needs</u>

The implementation strategy concepts apply both to MACT standards for large industry and small businesses. All implementing agencies should coordinate with the Small Business Assistance Program for their area to assure that they have an appropriate understanding of the rules and access to training and literature. This coordination is very important to ensure compliance with SBREFA and EPA's small business policies. Each implementing agency needs to understand that small businesses may be major sources and that the Small Business Assistance Program is a major participant for any rule affecting small business entities.

If a rule is subject to the Small Business Regulatory Enforcement Fairness Act (SBREFA), there are specific requirements for the development and distribution of SBREFA Compliance Guides. EPA must prepare one or more publications as small entity compliance guides, explain in these guides the actions a small entity must take to comply, and distribute these guides to small entities through comprehensive sources of information. For example, trade associations may be appropriate for some industries, and the Small Business Assistance Program may be appropriate for others. The CAA gives the EPA broad discretion under SBREFA with regard to implementation, development, and distribution of the guides. Further information is located in Appendix J, Small Business Regulatory Enforcement Fairness Act.

4.5 <u>Compliance Assurance</u>

After educating themselves, the regulated community, and the public, and after locating the sources, the implementors must turn to assuring compliance with the rule. Although different agencies have different organizations and procedures for compliance assurance, certain major activities are universal. First, the implementor must establish a system to track compliance. There is no new tracking or reporting requirement mandated by this document, but rather, the

specific requirements will be agreed to as part of the Performance Partnership Agreement. Systematic tracking supplies quick and easy analysis of a source's compliance status and the success of the implementation efforts. Initially, the tracking includes receipt of notifications and grows to periodic reports and inspection results. To accomplish this, the Aerometric Information Retrieval System (AIRS) is available. An internal system, MACTRAX, is also an option as long as the AIRS reporting commitments are still met. See Appendix L on the MACTRAX System.

If AIRS is used for tracking, the appropriate data should be entered. If an action code is missing, the regional office should be notified to have it added. Stand-alone tracking systems may also be established. This may be advantageous during the early implementation stages to track all the initial notifications, compliance status notifications, and first periodic reports. Stand-alone systems provide faster access to compliance data, and the report writing capabilities may be more flexible. Nevertheless, all required data must be entered into AIRS, and the use of a stand-alone system is a matter of preference.

Another compliance activity is inspections. Individual affected sources should be targeted for regular inspections beginning after a rule's first substantive compliance date. If a rule has staggered substantive compliance dates, then additional targeting is necessary. This is especially important for the regional offices which have limited field presence. Whatever targeting model is used, its weighting factors should be adjusted after a compliance date to ensure that MACT sources are inspected. In subsequent iterations, the weighting factors can then be reduced to normal levels merely to ensure continuous regular inspections. Example inspection checklists are included as Appendix H.

While conducting inspections, the implementor will need to consider whether violations will be addressed with compliance assistance or enforcement proceedings. Furthermore, because of resource limitations, compliance assistance priorities should consider where assistance is most needed and most effective. For example, sources which are expected to have difficulties in complying, like area sources, small businesses, or sources predominantly owned by persons who may not understand English well may be the best candidates for compliance assistance. Also, one

should note that compliance assistance is only a part of compliance assurance. Assistance is when the implementor helps define and works with the regulated source in how to achieve compliance. Assurance is all the activities the implementor conducts to achieve, monitor, maintain, and track industry compliance, short of enforcement. These activities are the precursors to enforcement, when necessary, and naturally include compliance assistance.

Compliance assistance is also a major factor when dealing with small businesses. The small business programs were created to provide information to small businesses requesting compliance assistance. Compliance assistance will likely be the response for deficiencies found at small businesses which report deficiencies voluntarily. Again, appropriate coordination with the Small Business Assistance Program is critical during this phase of compliance assurance. Please note that the Small Business Assistance Programs may also conduct site visits.

During this phase, EPA encourages the implementor to present pollution prevention goals as part of the source inspections. The inspectors should have checklists so that they can easily identify the necessary pollution prevention activities. Also, the checklists could have suggestions for other prevention activities which are not required by the rule. The checklists could be similar to the inspection checklists developed for the dry cleaning facilities MACT standard (see Appendix H1). Since pollution prevention activities are not always required by the rule, some states may not be able to incorporate pollution prevention into their inspection scheme. If this is the case, a great effort at pollution prevention education during the outreach phase of implementation is all the more important.

Lastly, all federal compliance assurance activities should be coordinated with the state, local, and tribal entities (See Sections 2.0 and 3.0). This will avoid conflicts and help EPA focus its resources.

4.6 Enforcement

When a violation is discovered at a major source, the implementor should proceed according to the guidance on "Timely and Appropriate Enforcement Response to Significant Air Pollution Violators.¹" The purpose of the guidance is to enable the implementors to focus enforcement efforts on the highest priority of noncomplying sources and to do so in a timely manner. The SMIP may include an Enforcement Response Plan (ERP) as guidance on specific conditions when enforcement is necessary. For all enforcement actions, pollution prevention benefits should be explained, and the use of pollution prevention projects should be encouraged when an enforcement settlement is going to include supplemental environmental projects (SEPs).

4.7 <u>Reference Materials</u>

During rule development and certainly at promulgation, various participants need to gain an understanding of the requirements in the rule and its associated infrastructure. Good sources of information are the documentation that EPA generated during rule development such as technical and general fact sheets, Federal Register notices, the rule itself, and the technical support document that includes the basis for the rule. These documents are usually available promptly on EPA's electronic bulletin boards/websites and specifically on the EPA/STAPPA/ALAPCO Unified Air Toxics Website (See Appendix D for website information). Sometimes additional information prepared by EPA and the state and local agencies is on the website or available through hypertext links to other sites. In the near future, this website will contain information on each MACT standard and its implementation. In order to share information and to avoid duplicate efforts, this strategy recommends that EPA lead a joint effort with STAPPA to coordinate the development of tools and make them available on the Unified Air Toxics Website.

¹Guidance on the Timely and Appropriate (T&A) Response to Significant Air Pollution Violators (SVs). Memorandum from John S. Seitz and Robert Van Heuvelen, U. S. Environmental Protection Agency, Office of Air Quality Planning and Standards, to Air Directors and Regional Counsels. February 7, 1992.

It is essential to the SMIP that a list of available resources for the MACT standard are mentioned with specific instructions on how to access them.

4.8 <u>Other</u>

During each phase of the implementation of a rule, the implementors will have to deal with additional considerations that will impact their activities. Some may only affect certain state, local, or tribal entities or geographic areas while others will be more universal. Some of the universal considerations include resources, permitting, requests for compliance extensions and waivers, and impact of SBREFA. The SMIP can provide some assistance with these issues, but individual planning will be required to adapt the strategies to the structure of each regulating agency.

4.8.1 Resources

A successful implementation strategy should consider all possible aspects of implementation, including resources. The availability of resources is always a factor in how much work can reasonably be performed. Choices will need to be made on where the resources can be used most effectively and efficiently.

The implementation support activities will likely be in direct proportion to the resources allocated for such efforts. During the MACT standard development process, PRG/ITPID, ESD, OECA, and the implementors should discuss possible implementation efforts and prioritize them with emphasis on the critical elements. The EPA/STAPPA/ALAPCO Committees on Air Toxics and Training are two current venues that PRG is using to help prioritize needs.

Because implementation needs will likely continue to be greater than the directly available resources, PRG/ITPID will pursue additional approaches for completing the identified critical elements of the SMIP. PRG/ITPID may ask implementors to volunteer to prepare certain materials or share costs with others to prepare specific items. For example, an industry trade

group may be able to provide a list of affected sources or develop training materials, or a regional office or state or local agency may be able to develop an inspection checklist or the SMIP. If these approaches are still insufficient to complete the critical materials, PRG will alert EPA managers and STAPPA/ALAPCO of the situation for resolution and they may bring the discussion to the Air Toxics Task Force, if appropriate.

4.8.2 Permitting

Several issues may need to be addressed with regard to permitting. If the source is yet to receive its operating permit, the implementor must ensure that the permit includes the applicable requirements of the rule. Also, if the permit has been issued and is not going to expire within three years, then the implementor must reopen the permit to include the applicable requirements of the MACT standards. For rules that apply only to major sources there will be discussions concerning potential to emit and ways to ensure that the source may keep its potential below the MACT cutoffs and Title V requirements. In this case, the specific MACT implementation plan could provide examples or ideas about limitations that would be appropriate for a Federally Enforceable State Operating Permit (FESOP). Also, for sources that have requirements from more than one regulation, the source may want to take advantage of the streamlining opportunities afforded in the Title V White Paper 2.¹

Other considerations may include requests for compliance extensions, waivers, and other determinations. These requests must be processed according to the time frames in the rule or general provisions. Much additional information on Title V and other policy and guidance is available on the EPA Title V Operating Permit Program website and the EPA Policy and Guidance website.

¹White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program. Memorandum from Lydia N. Wegman, U. S. Environmental Protection Agency, Office of Air Quality Planning and Standards, to EPA Regional Office Directors. March 5, 1996.

5.0 DEVELOPMENT OF A SPECIFIC MACT IMPLEMENTATION PLAN

Section Summary

This section defines and discusses "baseline" and "enhanced" efforts for the development of implementation materials, decision making tools and processes for determining recommended level of effort for a MACT Standard, and the Tool Development Agreement (TDA).

This section describes activities recommended to effectively develop a Specific Model Implementation Plan (SMIP) using the strategy presented in Section 4.0 and tailoring it to the specific MACT standard. An assessment is made of the complexity of the standard and the expected implementation needs. Based on that assessment, a SMIP is developed for that standard which includes a Tool Development Agreement (TDA) that is agreed to by the participants. The SMIP should reflect that follow-up and tracking activities are necessary after promulgation. See Figure 5-1 for a flow diagram illustrating this process.

The implementation may require different levels of effort and resources for each MACT standard. The Program Review Group (PRG) in the Information Transfer and Program Integration Division (ITPID) has the lead role in encouraging the development of a SMIP, and for coordinating the activities recommended for successful implementation as specified in Section 4.0, as resources allow. PRG is specifically responsible for developing a TDA that ensures that the critical implementation materials are prepared or the gap between the need and the resources available is elevated to EPA managers and STAPPA/ALAPCO as discussed in Section 4.8.1. As shown in Tables 2-1 through 2-5 (and Table 5-1), ITPID is not responsible for all implementation activities, or the actual preparation of all implementation materials. Rather, PRG/ITPID will focus on developing the TDA, coordinating the production of the materials, and preparing some of the materials. Actual preparation of these materials will be shared among the implementors (both EPA and non-EPA).

5.1 Assessment of MACT Standards

5.1.1 Baseline Implementation Materials and Enhanced Implementation Materials

Certain implementation materials have been identified as "baseline" materials that would be beneficial for every MACT standard. Any additional items are categorized as "enhanced" materials. The following subsections describe the decision making process for planning the level of effort for a MACT standard. For the purposes of this discussion and preparation of the TDA, the following items are considered "baseline" implementation materials:

Administrative

- Contacts list (e.g., Permitting Authority, Regional Offices, ITPID, ESD, OECA, OGC);
- Specific delegations guidance where generic guidance is not sufficient;
- Summary of recordkeeping and reporting requirements;
- Specific compliance certification/assurance and enforcement policies/guidelines where generic guidance is not sufficient;
- Specific data reporting information (AIRS database training, MACT database training, MACTRAX) where generic guidance is not sufficient; and
- Timeline: compliance schedule (i.e., summary of compliance deadlines).

Technical

- Fact sheets/summary of the standard;
- Currently available list of affected sources and locations;
- Examples of applicable reporting forms (e.g., initial notification, initial statement of compliance for each control device, checklists);
- Inspector checklists;

- Summary of testing and monitoring requirements;
- Summary of operations and maintenance plans/requirements (if required by MACT);
- Technical support document;
- Specific guidance on relationships to Title V, NSR, Potential to Emit (PTE) where generic guidance is not sufficient;
- Sample calculations; and
- Applicability flowcharts.

Other implementation materials have been identified as "enhanced" materials. These items may be useful for implementation of certain MACT standards, in addition to the baseline items. How to determine the need for the development of these additional materials is discussed in the following subsections.

For purposes of this discussion and preparation of the TDA, the following items are "enhanced" implementation materials to be considered:

Technical Training

- Satellite downlinking training sessions;
- Workshops (at 1 or more sites near implementors);
- CD-ROM interactive tools on training;
- <u>Federal Register</u> hypertext;
- VHS training tapes;
- On-site training and certification (i.e., at a source) (for implementors or perhaps sources in conjunction with Small Business Assistance Program or Trade Association);
- Test method training; and

• Example conditions for Title V operating permits.

Source ID/Outreach/Small Business Assistance

- Source identification materials (beyond ESD list and Source ID Cookbook);
- Brochures/pamphlets/plain-English guides (outreach materials);
- Public meetings;
- Small business outreach materials:
- Small business assistance training; and
- SBREFA Compliance Guide (if necessary).

When determining if enhanced efforts may be needed, the implementors may want to consider other important factors such as the potential for emission or risk reduction, the degree of public interest in the standard or regulated industry, or other factors that can affect the overall significance of a particular MACT standard. In any case, the implementor's judgement should always prevail in dictating the starting point for any implementation effort as well as deciding whether to incorporate additional implementation materials.

5.1.2 Interview with MACT Development Team and Representative Implementors

Tools are available to help PRG and all the implementors plan the expected implementation needs for each MACT standard. A list containing several types of questions is useful as a starting point for the initial information gathering phase (see Appendix A). PRG takes the lead in scheduling and interviewing the MACT development team (usually ESD, but may be a regional office or state partner, in the case of MACT Partnerships) and representative implementors to get specific information on that standard and implementation needs. This information may be helpful in determining the necessary level of implementation effort. Ideas for particular implementation materials may also be identified during the interview.

5.1.3 Diagnostic Questionnaire

A diagnostic questionnaire (Figure 5-2) has been developed as a tool to allow implementors to systematically examine the different factors that may either justify or preclude the need for implementation materials beyond the baseline. The questionnaire considers the following factors:

- Complexity of the rule;
- Difficulty of determining applicability;
- Cost of compliance;
- Number and size distribution of sources and companies;
- SBREFA requirements;
- Capabilities of trade associations (which affects the need assessments and leveraging possibilities);
- Degree of controversy or acceptance of the rule by industry, state, local, and tribal entities, and the public; and
- Capabilities/technical expertise within the industry.

Each of the factors in the questionnaire influences the level of effort recommended for implementation of a particular MACT standard. For example, the presence of a small number of facilities in a regulated industry would tend to reduce the necessary implementation effort. Conversely, the presence of complex rule language would tend to increase the warranted level of effort. The questionnaire contains diagnostic questions that review the effects of the various factors and indicates whether enhanced materials would be useful for implementation of a specific MACT standard.

The availability of resources within the implementing agencies is always a factor in determining how much work can reasonably be performed; however, the questionnaire

deliberately does not include available resources as a factor for consideration because the initial determinations should be based on experience and technical expertise.

The questionnaire provides a format where points are assigned for each response. The points are totaled and a score of six or greater indicates that additional efforts should be considered.

5.1.4 Flow Charts for Enhanced Efforts

Flow charts are included as tools that may help determine where enhanced efforts would be useful. Figures 5-3 through 5-6 are flow charts for determining if technical training, source identification/notification, public outreach, or small business assistance may be necessary. Once a decision is made that enhanced implementation materials may be needed, the specific areas needing additional effort should be identified. The flow charts are intended to help with this decision-making process.

5.2 The Tool Development Agreement

Table 5-1 presents one tool, the TDA, that should be used by the MACT development team and implementors to reach preliminary agreement on the scope of the draft SMIP. PRG will take the lead on planning the development of the SMIP and coordinating among the various implementors. After consensus has been reached among the implementors on the preparation of baseline implementation materials, the areas where enhanced efforts are needed, and the lead for the preparation of each item/set of materials, the TDA for that MACT standard may be developed.

The baseline elements are shaded and are listed first in Table 5-1, followed by the enhanced elements. For each element listed, suggestions on the lead group and significant participants have been made. A blank TDA can be found as Appendix B to this document and

may be photocopied and used as a planning tool. The TDA contains three groups of columns which include the following items:

Implementation Materials - The items in this column are the building blocks that make up a complete MACT implementation plan. Some of the items in this plan will be specific to each MACT standard while others may be general language unless otherwise specified. For example, specific language may be used for delegation guidance exceptions and exceptions to compliance certification/assurance and enforcement policies/guidelines. Items marked with an asterisk represent those that will be general language unless the specific rule is an exception to the normal guidance.

Y/N - The Y/N column is to be used for MACT-specific decisions on what materials will be produced. This decision will be based on the knowledge and expertise of the implementors, with the assistance of the decision making tools (Figures 5-2 through Figure 5-6 and Appendix A).

Lead Group - If the material is identified as baseline or as a necessary enhanced tool for a particular MACT standard, a lead group responsible for coordinating the preparation of that piece of material will be identified as "lead" in this column. The lead group will not necessarily be the preparer of the material.

Participants - The final group of columns indicates participants in each implementation activity. Most of the implementation materials will need input or review from more than one group. For each item, a check mark indicates whether a certain group is expected to participate in the development of that material. This participation could be as a preparer or a reviewer, and does not exclude any other group from participating in the development of that item. Table 5-1 distinguishes responsibilities among nine potentially responsible entities. The entities are subdivided where responsibilities are specifically targeted for a particular group.

During MACT development, at promulgation and at compliance dates, ITPID and ESD will likely execute most of the efforts included for the baseline tools with some activities and materials performed or prepared by the regional offices, OECA, state, local and tribal entities, and the Small Business Assistance Program. However, the TDA can be tailored towards the specific needs of the implementors, as appropriate. A model TDA has been prepared and is included as Table 5-1. Again, all of these materials presume certain activities, roles, and responsibilities by the implementors in order to facilitate efficient and effective preparation of plans. The plans are designed to remain flexible so that additional ideas can be accommodated.

Because the MACT standards requiring enhanced implementation efforts are generally more complex than those requiring only baseline efforts, more intensive and extensive planning may be necessary. The SMIP may be coordinated with a working group or a team of implementors. In some cases, it may also be appropriate for the working group or a team to actively design and plan the SMIP. Such a Working Group or Team could include representatives from ESD, ITPID, EMAD, OECA, OGC, regional offices, state, local and tribal entities, the Small Business Assistance Program, and other entities, as needed. Ideally, these representatives would develop a detailed plan of action during rule development for implementation of the standard at promulgation. A key consideration in the SMIP and TDA is the timing of the preparation and availability of the elements. For example, the timing of efforts to promulgate the rule and develop implementation tools will have to be coordinated so that both efforts are as effective and efficient as possible.

5.3 Additional Elements of a Specific MACT Implementation Plan

The assessment of the MACT Standard and preparation of the TDA should happen prior to promulgation. Some tools may be drafted before promulgation, but many cannot be prepared until after the final promulgation details are known and signed. Other aspects of the MACT implementation process will also occur after promulgation, such as the following:

Follow-up and tracking;

- Compliance assurance; and
- Enforcement.

All elements discussed in Section 4.0 should be considered for every MACT standard at some point in the implementation process. Each MACT standard will be unique and will need to be given individual consideration when developing the SMIP. It may not be possible to predict the effects of the standard, therefore, tracking with appropriate follow-up activity is necessary for successful implementation.

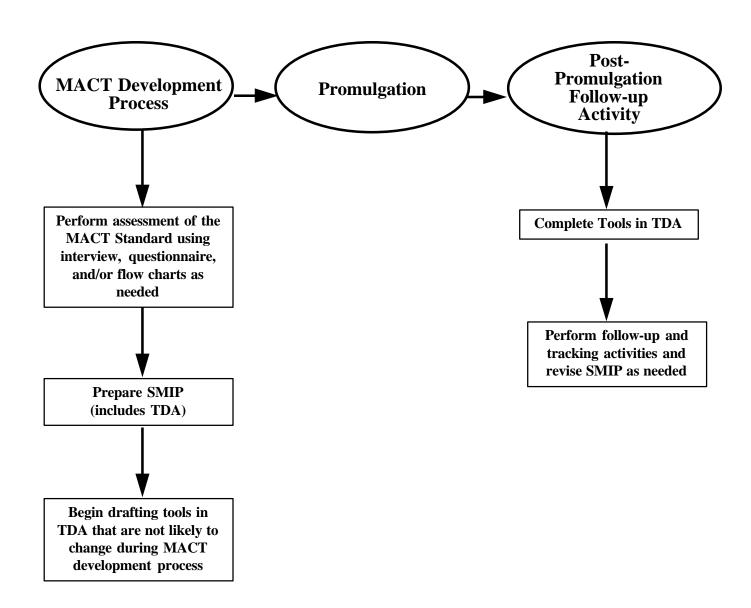


Figure 5-1. Process for Developing a SMIP

Instructions: For each question below, choose the response that best represents the situation with your MACT standard. After answering all questions that apply, total your score by adding the numbers in parentheses that correspond to the answer chosen.

Scoring: 6 total points or greater suggests a need to utilize enhanced implementation materials beyond the baseline effort. See additional flow charts to determine what types of enhanced efforts are needed.

enhar	iced efforts are need	led.
1.	How would you cha standard?	racterize industry's involvement in the development of the MACT
	a. Positiveb. Negative	(0)(1)
2.	Does the MACT sta by most of the regul	ndard contain different requirements from what is already in practice ated industry?
	a. Yes b. No	(1) (0)
3.	How many states co	entain affected sources?
	a. Less than 4b. Between 4-10c. More than 10	(0) (1) (2)
4.	How many affected	sources are there?
	a. Less than 5b. Between 5 & 30c. More than 30	(0) (1) (2)

Figure 5-2. Questionnaire for Determining Whether Materials Beyond the Baseline Level are Needed

5.		y large or small? ("Large" is defined as being more than "small" being less than 500 employees for the purpose of this
	a. Largeb. Small	(0) (1)
6.	Is the rule subject to	SBREFA?
	a. Yes b. No	(1) (0)
7.	Is the rule complex?	(e.g., the rule has many options for compliance)
	a. Yes b. No	(1) (0)
8.	Do the majority of the	he affected sources belong to a trade association?
	a. Yes b. No	(0) (1)
9.	Is it difficult for a so	ource to determine applicability?
	a. Yes b. No	(1) (0)
10.	What is the cost to c	omply with this rule?
	a. Minimalb. Significant	(0)(1)
TOTA	AL:points	

Figure 5-2. Questionnaire for Determining Whether Materials Beyond the Baseline Level are Needed (Continued)

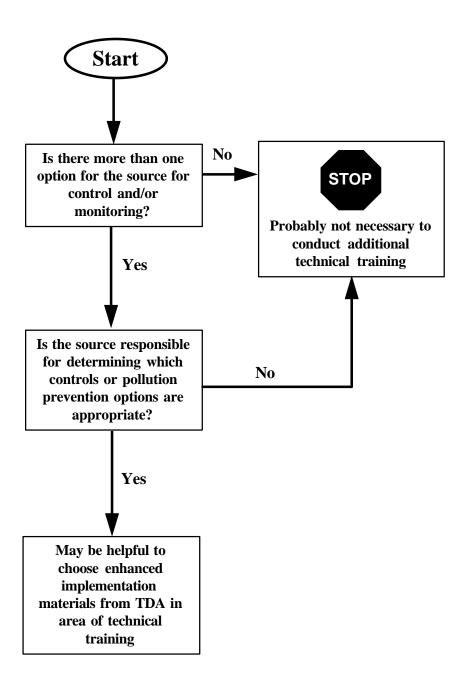


Figure 5-3. Flow Chart for Determining if Enhanced Technical Training is Necessary

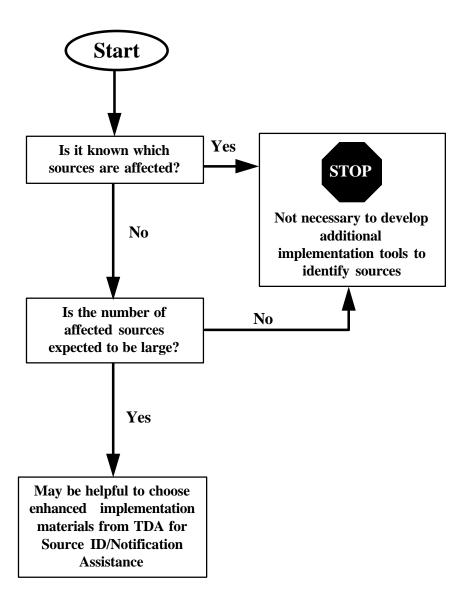


Figure 5-4. Flow Chart for Determining of Enhanced Source ID/Notification is Necessary

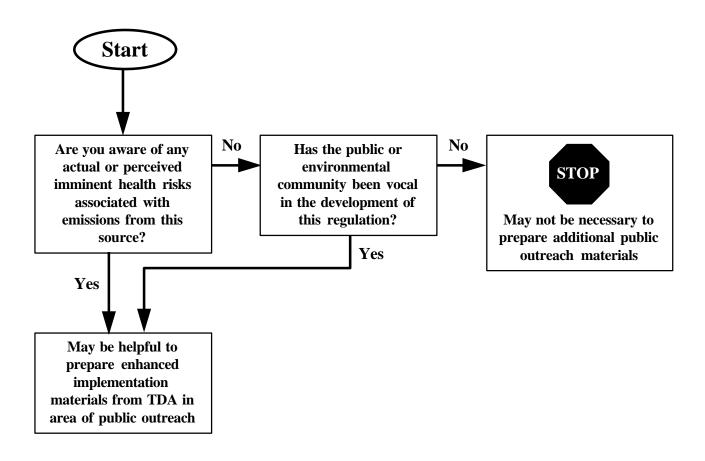
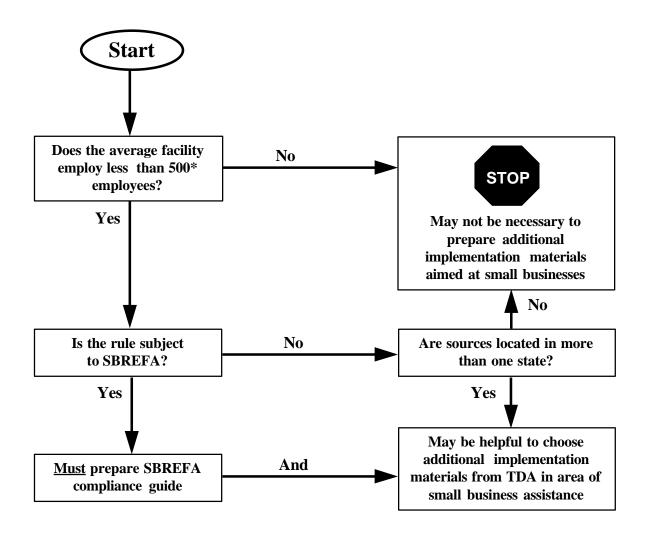


Figure 5-5. Flow Chart for Determining if Enhanced Public Outreach is Necessary



^{*} There is a specific definition for small business for each SIC code. These definitions are based on number of employees or dollar amount that the business must equal or be less than in order to qualify as a small business. A large portion of these SIC codes use 500 employees as the maximum number to qualify as a small business.

Figure 5-6. Flow Chart for Determining if Enhanced Small Business Assistance is Necessary

MACT:	· ·

Table 5-1. Model Tool Development Agreement

			Participants ^a														**/	
Tours and odd on		Lead				ITI	PID			OE	CA							When Available
Implementation Materials	Y/N	Group	ESD	OPG	IIG	IMG	ITG	EOG	PRG ^b	OC	ORE	PRRMS	EMAD	OGC	RO ^c	S/L/T ^c	SBAP	
BASELINE																		
Administrative																		
Contacts list for implementors	Y	PRG	>	~	~	~	~	~	Lead	~	~	V	~	~	~	'	~	at promulgation
Specific guidance on delegations*	Y	IIG	~		Lead				~	~	~	~	~	~	~	~		at promulgation
Summary of recordkeeping and reporting requirements	Y	ESD	Lead			~			~	'	•	•	~		•	V		at promulgation
Specific guidance on compliance certification, assurance, and enforcement policy*	Y	OC	V					V	V	V	Lead		~	~	V	~		at promulgation
Specific data reporting aspects of AIRS*	Y	IMG	V			Lead			~	V	~	~	~		~	V		at promulgation
Specific data reporting aspects of MACT database*	Y	IMG	V			Lead			~	V	V	~	~		V	V		at promulgation
Specific data reporting aspects of MACTRAX*	Y	PRRM S	V			~			~	V	V	Lead	V		~	V		at promulgation

Table 5-1. Model Tool Development Agreement (continued)

			Participants ^a															
Toronton and disco		T 1				ITI	PID			OE	CA							When Available
Implementation Materials	Y/N	Lead Group	ESD	OPG	IIG	IMG	ITG	EOG	PRG ^b	ос	ORE	PRRMS	EMAD	OGC	ROc	S/L/T ^c	SBAP	Tivanable
Timeline: compliance schedule	Y	ESD	Lead						•	٧				~	~	•		at promulgation
Technical																		
Fact sheets (general, technical, and press release)	Y	ESD	Lead					~	~	>			~	~	~	~		at promulgation
Summary of the standard	Y	ESD	Lead					~	V	~			~	~	~	~		at promulgation
Currently available list of affected sources	Y	ESD	Lead						~	V					~	•		at promulgation
Examples of applicable reporting forms (e.g., initial notification, initial statement of compliance for each control device, checklists).	Y	OC	>		~				~	Lead	V				•	~		at promulgation
Applicability flow charts	Y	ESD	Lead	V	V	~	V	V	V	V	V	V	V	~	~	~		at promulgation
Sample calculations	Y	ESD	Lead		~	~	v	~	~	~	~	~	~	~	~	~		at promulgation

Table 5-1. Model Tool Development Agreement (continued)

				Participants ^a														
Town Laws and a 4's as		T 1				ITI	PID			OE	CA							When Available
Implementation Materials	Y/N	Lead Group	ESD	OPG	IIG	IMG	ITG	EOG	PRG ^b	ос	ORE	PRRMS	EMAD	OGC	RO°	S/L/T ^c	SBAP	12/4114020
Inspector checklists	Y	OC	>		~	~	~	~	~	Lead	~	~	>	~	~	~		at promulgation
Summary of testing and monitoring requirements	Y	ESD	Lead		~	~	~	•	>	>	>	~	٧	~	V	~		at promulgation
Operations and maintenance plans/ requirements	Y	ESD	Lead		~	V	V	~	\ \	<	~	~	V	~	~	~		at promulgation
Technical support document	Y	ESD	Lead		V	V	V	~	V	>	V	~	٧	V	V	V		at promulgation
Special relationships to Title V, NSR, PTE*	Y	ESD	Lead	V	V	~	~	V	~	V	V	~	V	V	~	~		at promulgation

Table 5-1. Model Tool Development Agreement (continued)

										Participa	nts ^a							
.		١,,				IT	PID			OEC	OECA							When Available
Implementation Materials	Y/N	Lead Group	ESD	OPG	IIG	IMG	ITG	EOG	PRG ^b	ос	ORE	PRRMS	EMAD	OGC	RO°	S/L/T ^c	SBAP	11 vanable
ENHANCED																		
Technical Training																		
"CD-ROM" interactive tools on training		PRG	~					V	Lead	~	~		~	~	~	~		at promulgation
Federal Register hypertext		PRG	~				~		Lead	V	~		~	~	~	~		1-3 months after promulgation
Workshops (site- specific)		ОС	V					~	~	Lead (NETI)	~		•	~	~	~		1-3 months after promulgation
Satellite downlink training sessions		PRG	~					V	Lead	~	~		~	~	~	~		1-3 months after promulgation
VHS training tapes		PRG	V					~	Lead	V	V		~	~	~	~		6 months afte promulgation
On-site training and certification		OC	V					~	~	Lead (NETI)	~		~	~	~	~		6 months afte promulgation
Example conditions for Title V operating permits		ESD	Lead	~	V	~	~	~	~	~	~	•	~	~	~	~		at promulgation
Test method training		EMAD						V	V	V	~		Lead		~	~		1-3 months after promulgation

Table 5-1. Model Tool Development Agreement (continued)

										Participa	ants ^a							When Available
						ITI	PID			OE	CA							
Implementation Materials	Y/N	Lead Group	ESD	OPG	IIG	IMG	ITG	EOG	PRG ^b	ос	ORE	PRRMS	EMAD	OGC	ROc	S/L/T ^c	SBAP	11 validote
Test method training		EMAD						~	~	V	~		Lead		~	~		1-3 months after promulgation
Source ID/ Outreach/ Small Business																		
Source identification effort (beyond cookbook information provided in Appendix G)		OC							V	Lead	V		~		~	~		at promulgation
Brochures/ pamphlets/ Plain English Guides (outreach materials)		PRG	V					~	Lead	V	~	~	•	~	~	~		at promulgation
Small business assistance training		ITG	~				Lead	~	~	V	~		~	~	~	~	~	at promulgation
Small business outreach materials		ITG	V				Lead	~	~	V	~		~	~	~	~	~	at promulgation
SBREFA compliance guide (if necessary)		ESD	Lead				~	~	V	V	~	_	~	~	~	~	~	at promulgation

a Participates as either a provider, preparer, or a reviewer (🗸)

MACT:	

Table 5-1. Model Tool Development Agreement (continued)

- PRG is responsible for coordinating development of the SMIP and the TDA upon request by ESD and negotiations between ESD and PRG. Identify which regional office or which state/local agency Generic EPA guidance will be used unless this rule is an exception to that guidance.

EMAD	Emissions, Monitoring and Analysis Division	OGC	Office of General Counsel
EOG	Education & Outreach Group	OPG	Operating Permits Group
ESD	Emissions Standard Division	ORE	Office of Regulatory Enforcement
IIG	Integrated Implementation Group	PRG	Program Review Group
IMG	Information Management Group	PRRMS	Planning, Resources and Regional Management Staff
ITG	Information Transfer Group	RO	Regional Offices
ITPID	Information Transfer and Program Integration Division	SBAP	Small Business Assistance Program
OC	Office of Compliance	S/L/T	State/Local/Tribal Entities
OECA	Office of Enforcement and Compliance Assurance	NETI	National Enforcement Training Institute
ESD IIG IMG ITG ITPID OC	Emissions Standard Division Integrated Implementation Group Information Management Group Information Transfer Group Information Transfer and Program Integration Division Office of Compliance	ORE PRG PRRMS RO SBAP S/L/T	Office of Regulatory Enforcement Program Review Group Planning, Resources and Regional Management Regional Offices Small Business Assistance Program State/Local/Tribal Entities

APPENDIX A

Interview Questions for MACT Development Team and Implementors

Interview Questions for MACT Developers and Implementors to Help Jointly Determine What is Needed for Implementation

This list of questions was designed as an optional **In-Person Oral Interview Guide or Tool** for informal discussions of currently available information (or where it may be obtained) as input for the developers and representative implementors to jointly develop an implementation plan (i.e., what is needed when) for a specific MACT standard. **Precise answers are not necessary**. Nor do all questions need to be answered at the time of the interview. The initial goal is merely to obtain enough information to develop a draft plan, including what tools are most needed.

Affected Sources

1. How many sources are affected?

What percentage are small?

How many small business or governments are affected?

Is rule subject to SBREFA?

2. Is it known which sources are affected?

How exhaustive is the inventory?

Is there a list of sources?

Does it include locations, addresses, telephone numbers, contacts?

Do you know anyone else that may have a source list?

3. Is this industry already Federally regulated? If so, how? Are there State/local/tribal rules? If so, what is their general level of control?

4. How many States have affected sources?

How involved have the States and Regions been in developing this standard?

How ready are the States to implement this standard?

Applicability

5. Explain how the source determines if this rule applies to them.

Specifically, what does the source have to do to determine applicability?

Is this straightforward? That is, what is the level of difficulty for small and large sources to determine applicability?

Where is this protocol described?

What additional information will the source need to obtain, develop, or record?

Cost of the Regulation

6. What is the cost to comply with this rule?

Benefits of the Regulation

7. What emissions reductions will be achieved?

Which pollutants? What are the general health risks associated with these reductions?

Coordination with Stakeholders

8. What level of participation have you received from industry, trade groups, environmental groups, States, locals, Tribes?

What outreach to States/locals/tribes and industry is necessary?

What education do the Regional Offices need?

Are they calling you with many questions? What would help them answer the questions?

What outreach/education has been requested by the Stakeholders?

What have you done or planned?

9. Who are the relevant trade groups?

How active do you expect them to be in educating their members?

10. Who is the Office of Compliance contact?

Office of Regulatory Enforcement?

Office of General Counsel?

Regional Office contacts?

State contacts?

Locals?

Tribes?

Permitting?

What has been the level of participation of these individuals in rule development?

Have they pointed out any implementation concerns?

Have they committed to help on implementation aspects?

Real-World Climate

11. What is the climate in EPA, Congress, industry, States, locals, tribes, and the public for this rule? Is it a high-profile rule?

Who are the advocates for this rule?

Who are the adversaries for this rule?

12. Has EPA been sued or do you expect EPA to be sued on this rule?

Complexity of the Rule and Compliance Assurance

13. How complex are the requirements?

What are the control and monitoring requirements of the MACT?

How many options are there?

How does the source determine which controls or pollution prevention options are appropriate?

Are the monitoring requirements consistent with the enhanced monitoring provision of section 114(a)(3)? (timely, accurate, replicable) If not, how do they differ?

What are the monitoring system performance specifications and calibration and QA/QC requirements? Monitoring data availability requirements?

Are any excursions from required monitoring parameters excused from consideration as violations of the emission standard?

What are the reporting and recordkeeping requirements?

- 14. Does the standard require the source to develop inspection/maintenance procedures and an operating plan? What are the criteria for approvable procedures and plans?
- 15. Are inspector checklists needed? Would they be helpful to Regional Offices, states, locals, tribes, industry? Are examples available?
- 16. Are there example forms or checklists for the source to use for demonstrating compliance?
- 17. What are the compliance dates?
- 18. Is there an Enabling Document available? Are there any gaps in the information available?

APPENDIX B

Tool Development Agreement

MACT:

Tool Development Agreement

			Participants ^a															
Incomplement of the second	entation Lead ITPID						OF	ECA	DDD14 G		0.00	200	G (T. (TT))	an i n	When Available			
Implementation Materials	Y/N	Group	ESD	OPG	IIG	IMG	ITG	EOG	PRG ^b	oc	ORE	PRRMS	EMAD	OGC	ROc	S/L/T ^c	SBAP	
BASELINE																		
Administrative																		
Contacts list for implementors																		
Specific guidance on delegations*																		
Summary of recordkeeping and reporting requirements																		
Specific guidance on compliance certification, assurance, and enforcement policy*																		
Specific data reporting aspects of AIRS*																		
Specific data reporting aspects of MACT database*																		
Specific data reporting aspects of MACTRAX*																		
Timeline: compliance schedule																		

MACT:

			Participants ^a															
Town laws and add an		Lead ITPID					OE	ECA	2222		0.00	200	G (T. 1770)	an i n	When Available			
Implementation Materials	Y/N	Group	ESD	OPG	IIG	IMG	ITG	EOG	PRG ^b	oc	ORE	PRRMS	EMAD	OGC	RO°	S/L/T ^c	SBAP	
Technical																		
Fact sheets (general, technical, and press release)																		
Summary of the standard																		
Currently available list of affected sources																		
Examples of applicable reporting forms (e.g., initial notification, initial statement of compliance for each control device, checklists).																		
Applicability flow charts																		
Sample calculations																		
Inspector checklists																		
Summary of testing and monitoring requirements																		

			Participants ^a															
			ITPID								ECA							When Available
Implementation Materials	Y/N	Lead Group	ESD	OPG	IIG	IMG	ITG	EOG	PRG ^b	ос	ORE	PRRMS	EMAD	OGC	RO°	S/L/T ^c	SBAP	11,411
Operations and maintenance plans/ requirements																		
Technical support document																		
Special relationships to Title V, NSR, PTE*																		
ENHANCED																		
Technical Training																		
"CD-ROM" interactive tools on training																		
Federal Register hypertext																		
Workshops (site- specific)																		
Satellite downlink training sessions																		
VHS training tapes																		
On-site training and certification																		

										Particij	nants ^a							
						IТ	PID				ECA							When
Implementation Materials	Y/N	Lead Group	ESD	OPG	IIG	IMG	ITG	EOG	PRG ^b	OC	ORE	PRRMS	EMAD	OGC	ROc	S/L/T ^c	SBAP	Available
Example conditions for Title V operating permits																		
Test method training																		
Source ID/ Outreach/ Small Business																		
Source identification effort (beyond cookbook information provided in Appendix G)																		
Brochures/ pamphlets/ Plain English Guides (outreach materials)																		
Small business assistance training																		
Small business outreach materials																		
SBREFA compliance guide (if necessary)																		

a Participates as either a provider, preparer, or a reviewer ()

b PRG is responsible for coordinating development of the SMIP and the TDA upon request by ESD and negotiations between ESD and PRG..

- c Identify which regional office or which state/local agency
 * Generic EPA guidance will be used unless this rule is an exception to that guidance.

EMAD	Emissions, Monitoring and Analysis Division	OGC	Office of General Counsel
EOG	Education & Outreach Group	OPG	Operating Permits Group
ESD	Emissions Standard Division	ORE	Office of Regulatory Enforcement
IIG	Integrated Implementation Group	PRG	Program Review Group
IMG	Information Management Group	PRRMS	Planning, Resources and Regional Management Staff
ITG	Information Transfer Group	RO	Regional Offices
ITPID	Information Transfer and Program Integration Division	SBAP	Small Business Assistance Program
OC	Office of Compliance	S/L/T	State/Local/Tribal Entities
OECA	Office of Enforcement and Compliance Assurance	NETI	National Enforcement Training Institute

APPENDIX C

Cost Estimates for Education and Outreach

COST ESTIMATES FOR EDUCATION AND OUTREACH

COST	ACTIVITY
\$25,000	Estimated cost to develop one day of a classroom training course (e.g., a four day course would be \$100,000). This estimate also holds for development of self-study materials and technical manuals, with a manual of about 250 pages being roughly equivalent to a 3 day classroom course (i.e, \$75,000).
\$ 2,800	Studio usage for about 5 hours. Includes taping, re-takes and some graphics support. This amount is also used in estimating the studio costs for a 5 hour (one day) broadcast.
\$ 2,800	plus travel expenses. Estimated cost for field shoots using two people and camera for about half a day.
\$ 400	Estimated hourly cost for uplink usage.
\$ 1,500	Estimated cost per minute for finished, broadcast quality video tape. This is known as a NOVA quality video.

NOTES: • Costs associated with development of high quality CD-ROMS are not yet available.

- These estimates or "Rules of Thumb" are only rough estimates that should be helpful in early training and planning sessions. These estimates are still tentative and are subject to change.
- These estimates can and must be substantially more refined as specific requirements are known. So, the earlier the Education and Outreach Group (EOG) becomes involved in the process, the more quickly a reliable cost estimate can be made.
- The EPA/STAPPA/ALAPCO Training Committee is currently developing a template for training efforts and has a continuing function of considering training priorities and coordinating efforts.
- For further information, contact Ron Townsend (919) 541-2498 for MACT-specific planning efforts.

APPENDIX D

Unified Air Toxics Website Information

UNIFIED AIR TOXICS WEBSITE

http://www.epa.gov/ttn/uatw/ SYSOP: Holly Reid, (919) 541-5344 Nancy Pate, (919) 541-5347

Purpose of Website - To provide the general public, federal, state and local governments and sources of air toxics pollution information (from basic to very technical) in a centralized location on the internet. To encourage sharing of information, especially among the federal, state, and local governments in, order to reduce duplication of effort when implementing air toxics rules and programs..

Brief description of the 6 areas planned for this website:

Basic Facts

- Describes Unified Air Toxics Website
- Briefly explains what air toxics pollutants and their effects are
- Provides links to citizen guides and brochures on health risks of air toxics and other basic sources of information

EPA Rules and Implementation

- Lists all air toxics rules and closely related rules
- Provides links to all preamble and rule texts, related policy guidance and access to implementation materials produced by federal, state or local agencies.

Pollutants and Sources

- Lists the 188 toxic air pollutants regulated by the EPA
- Defines types of air toxic pollutants sources
- Lists 174 source categories of industrial and commercial sources of air toxics

Technical Resources

- List telephone information resources (such as hotlines) and internet technical information resources (such as centers, clearinghouses) with air toxics information
- Gives access to select published technical documents and links to document information resources

EPA Programs

- Describes air toxics programs and its major components
- Lists all EPA offices with air toxics responsibilities and describes their roles

State and Local Agency Programs

- Describes federal, state and local air toxics program partnership
- Lists state and local air agency program websites
- Provides a "sharing library" for states and local agencies without websites to display work products in one centralized location

Topic Areas Per Source Category

Examples of Rule and Implementation Information on this Website

- Proposals, Promulgations
- Background Information and Guidance documents
- FR text
- Contact List
- Fact Sheets (HQ press releases, source list, technical information reports, state fact sheets)
- Source Information (list of potential affected sources, 1990 document for developing source category list, 1987 Toxic Air Pollutant Source Crosswalk)
- MACT Summary Table and tracking information
- Risk information
- Outreach materials
- Training and workshops
- Presentation and workshops
- Semi-annual summary reports from MACTRAX (Delegation and implementation status)
- Schedules
- Permitting information (initial permit notification forms, permit conditions and guidance, non-traditional source information, inspection forms and checklists)
- Compliance, Assistance, and Assurance Information (sector notebooks, compliance data, applicability determination)
- Enforcement
- Environmental indicators
- Questions and answers subsystem

APPENDIX E

AIRS Facility Subsystem

AIRS FACILITY SUBSYSTEM

- AIRS stands for Aerometric Information Retrieval System.
- AIRS is the database management system for the national database for ambient air quality, emissions (criteria and air toxics related), and compliance data, including permit tracking.
- The AIRS Facility Subsystem (AFS) is one of four subsystems under AIRS. Re-engineering project currently scheduled to begin in fiscal year 1998.
- Information included in AFS:
 - Number and location of facilities in a source category
 - ► Types of control equipment with efficiency estimates
 - Emissions estimations from EPA Reference test methods
- For more information, contact Chuck Isbell (ITPID/Information Management Group) at (919) 541-5448.

APPENDIX F

Example Specific Model Implementation Plan for Ethylene Oxide Commercial Sterilizers MACT Standard

Example SMIP for Ethylene Oxide Commercial Sterilizers

The following is a sample of what a Specific MACT Implementation Strategy should resemble. It includes an explanation of the implementation phases for this regulation. Additional implementation aids such as applicability flow charts or examples, source listings, trade associations, specific source identification techniques, standard permit language, inspection checklists, etc. are not included at this time but are under consideration.

Even though this regulation has already been promulgated, this sample implementation strategy is written as if it was published with the rule. As a result, some sections will refer to steps that may have already occurred.

Regulation Summary

• Regulation: Ethylene Oxide Sterilization Facilities

• This regulation controls ethylene oxide emissions for sterilization or fumigation operations.

• Citation: 40 CFR Part 63, Subpart O

• Published: 59 FR 62585

• Effective Date: December 6, 1994

• Applicability: All sterilization sources using ethylene oxide in sterilization or

fumigation operations

• Exemptions: beehive fumigators, research and laboratory facilities, and

operations at sources like doctor or veterinarian offices

• Categories: 1. Sources using less than 1 ton of ethylene oxide are only

required to keep records of 12 month rolling average of

ethylene oxide use

2. Sources using between 1 ton and 10 tons of ethylene oxide

3. Sources using 10 tons or more of ethylene oxide

• Initial Notification: 1. April 5, 1995 for existing sources, categories 2 & 3

2. 120 days from startup for new sources, categories 2 & 3

• Compliance Dates: 1. December 6, 1998 for sources with startup before

December 8, 1998

2. Upon startup for sources with startup on or after

December 8, 1998

• Emission Points: 1. Sterilization Chamber Vent

99% reduction for categories 2 & 3

2. Aeration Room Vent

99% reduction or 1 ppmv for category 3

3. Chamber Exhaust Vent

99% reduction for category 3 5300 ppmv for category 2

• Performance Tests: June 4, 1999 for existing sources, all emission points 180 days after

startup for new sources, all emission points

Notification of

Compliance Status: August 3, 1999 for existing sources, all emission points 60 days

after completion of performance tests for new sources, all emission

points

Phase One - Education

EPA will be offering satellite training on this regulation on {date}. The regional offices should assess their own interest and that of their states and ensure appropriate attendance. The satellite training will also be video taped. The video tape will be available from {location}, and EPA expects the video to be available after {date}.

In addition to this training, EPA has issued a fact sheet which is available on the TTN bulletin board along with the regulation and the background information document. On TTN, the fact sheet and rule are dated November 23, 1994 and located in the "Recently Signed Rule" section of the Clean Air Act board. The background information document, dated June 17, 1993, is located in the "Title III" section of the same board. Furthermore, the OAQPS Title III online Q&A bulletin board is available for inquiries about this rule. This information is also accessible via the United Air Toxic Website at Http://www.epa.gov/oar/oaqps/airtox.

The following are a list of contacts for this rule:

OAQPS: David Markwordt (919) 541-0837 OECA: Karin Leff (202) 564-7068

Region 1: {name} Region 2: {name} Region 3: {name}

Region 4: Phillip Barnett (404) 347-2904

Region 5: {name}
Region 6: {name}
Region 7: {name}
Region 8: {name}
Region 9: {name}

Region 10: {name}

In addition, this rule may impact small businesses; additional assistance regarding this issue may be obtained the following regional small business contacts:

Region 1:	{name}
Region 2:	{name}
Region 3:	{name}
Region 4:	{name}
Region 5:	{name}
Region 6:	{name}
Region 7:	{name}
Region 8:	{name}
Region 9:	{name}
Region 10:	{name}

Each region should also establish a contact for each of its states and begin communication regarding the regulation. Regular conference calls, either for this rule alone or as part of a larger call, are appropriate.

Phase Two - Source Population Identification

Since this rule involves area sources, EPA recommends following the practices and procedures for identifying sources presented in the "Cookbook" prepared by EPA. Following these procedures, EPA does not anticipate any difficult applicability questions for these sources.

Phase Three - Outreach

EPA has prepared a fact sheet about this rule and is currently preparing an implementation document that includes summaries of the requirements of the rule, applicability flow diagrams, example recordkeeping and reporting forms, inspector checklists, and other information to help implementation. The video of the satellite training course may provide material to educate the regulated community about the rule. The implementing agency and regions should be available for any trade shows related to this industry. Coordination with the small business assistance program for this regulation is advised.

Source population identification and outreach for this rule should be executed quickly as the initial notifications are due by April 5, 1995 for existing sources. However, additional time for outreach is provided in that the first compliance date is December 6, 1998, for an existing source.

Although pollution prevention activities for this source category may be limited, affected sources should be encouraged to investigate alternative sterilization techniques like antiseptic washes and thermal drying or using an autoclave where such techniques may be appropriate.

Regional Pollution Prevention Contacts are:

Region 1 {name} Region 2 {name} Region 3: {name} Region 4 {name} Region 5 {name}: Region 6: {name} Region 7: {name} Region 8: {name} Region 9: {name} Region 10: {name}

Phase Four - Compliance Assurance

This phase does not begin in earnest until after December 6, 1998. However, the initial notification is necessary by April 5, 1995. Appropriate information requests may be necessary to obtain all initial notifications.

Beginning in December 1998, the implementing agency should include this source category in their inspection planning. As part of this, the implementing agency needs to assure a presence in the regulated community particularly during the early period after a compliance date. If a state or local agency is implementing the rule and is inspecting all major sources, then the major ethylene oxide sterilization facilities will be addressed. If the state is using the Inspection Targeting Model or some other targeting method, the agency should assign enough weight to this source category to insure appropriate coverage. Area sources within a state are somewhat different. Compliance assurance may be achieved by a combination of techniques including requiring reports, certifications, record keeping, etc. These factors are usually imposed through the permitting process.

If EPA is the implementing agency, targeting of major and area sources for inspection is also needed. Due to EPA's more limited number of inspectors, consideration of regional resources is important. EPA can maintain a sufficient presence within the sector by using regional personnel and perhaps contractors. Furthermore, even if EPA is not the implementing agency, the regional office may wish to establish a small federal inspection presence among the sterilization facilities.

As time moves beyond the compliance date, less emphasis to this sector may be applied if compliance rates are good. However, after several years, the sector should be targeted again. In order to determine compliance rates, the implementing agency must establish a tracking system. AIRS is available for this function. If an implementing agency uses another system other than AIRS, the agency must also ensure that AIRS is updated in accordance with EPA policy on minimum data elements.

Finally, as part of assessing compliance, the implementing agency needs to decide how to deal with violations. Whatever the decision, the plan for each implementing agency should be

internally consistent and should include pollution prevention options. For this rule, compliance assistance is not generally advised because there is a period of two and half years to prepare for the requirements. As stated in phase three, affected sources should be encouraged to investigate alternative sterilization techniques. Some area sources or small businesses may be granted some assistance if they have trouble establishing initial compliance, such as an opportunity to re-test.

Phase Five - Enforcement

Notwithstanding any discussion of compliance assistance, the implementing agency should proceed with enforcement of violations involving an exceedance of an emission limit or a failure to conduct monitoring. The agency may use its enforcement discretion regarding a single reporting omissions, such as failure to submit timely an initial notification or a compliance certification notification, provided prompt correction is made. Enforcement is appropriate for repeat omissions involving any standard.

Since this rule regulates area sources, the regional offices should consider using field citations for violations that merit an action. This would simplify the process for the source and EPA. Also, whenever a SEP is considered as part of an enforcement case settlement, pollution prevention activities should be encouraged.

Phase Six - Additional Activities

One of the major ancillary activities will involve the permitting of the sources. All sources other than those using less than one ton of ethylene oxide are required to obtain a Title V permit. The permit must contain:

- 1. the requirement for the initial notification;
- 2. the emission standards for sterilization chamber vents, aeration room vents, and chamber exhaust vents;
- 1. the compliance date for each emission point;
- 2. the performance test requirement for each vent;
- 3. the requirement for the notification of compliance status;
- 4. the monitoring requirements;
- 5. the reporting requirements; and
- 6. the applicable General Provisions.

Many of these requirements are highlighted in the regulation summary section at the beginning of this report.

With respect to the General Provisions, the permit may reference the General Provisions without restating each minute section or may explicitly state each portion. The implementing agency should be advised that explicitly including all requirements in the General Provisions will result in a larger permitting effort. Also, many times the General Provisions include options. To address the options, the permitting agency must answer the following: does the permit contain all options, growing even larger, or does the permit only contain the options appropriate for the source? If the latter is used, the permit may have to be reopened every time a source switches options. Regardless of the technique used to include the General Provisions, the reference table within the regulation is an excellent guide between the two options.

For area sources, the Title V permitting requirement has been deferred for five years from the approval of a state's Title V program. These source must submit their permit application within 12 months of the expiration of the deferral period.

Other additional activities include processing of special requests: compliance extensions, performance test waivers, etc. Sufficient resources should be allocated to cover the processing of these requests. For this rule, such requests should not be excessive. However, there will be performance tests for multiple emission points for each facility, and these results will need a review. An implementing agency should anticipate most of these test results beginning in June 1998 and ending in August 1988.

Reference Materials

The following list contains reference materials for this rule and their location.

• Background Information Document (BID), TTN - Clean Air Act Board, Title III Section etc.

APPENDIX G

Source Identification Cookbook

ENABLING DOCUMENT

SOURCE IDENTIFICATION PROCEDURES FOR SOURCES SUBJECT TO REGULATIONS UNDER SECTION 112(d) OF THE CLEAN AIR ACT AS AMENDED IN 1990

Developed in Cooperation with
US Environmental Protection Agency
(Region 4, OAQPS, & OECA)
State of Georgia
State of New York
State of Florida
State of Illinois

[PLEASE REVIEW AND SUBMIT ALL WRITTEN COMMENTS BY OCTOBER 14, 1996. WRITTEN COMMENTS SHOULD BE MAILED TO:

ANTHONY TONEY
U.S. EPA REGION 4
APTMD
ATLANTA FEDERAL CENTER, 12th FLOOR
100 ALABAMA STREET, N.W.
ATLANTA, GA 30303

TABLE OF CONTENTS

<u>Secti</u>	<u>on</u>			<u>Page</u>
ACK	NOWLE	EDGEMI	ENT	1
NOT	ICE			2
1,01				
1.0	INTR	ODUCT	ION	. 1-1
	1.1	Purpos	se	1-1
	1.2	U	ound	
	1.3	MACT	Implementation Schedule	. 1-2
2.0	MAC'	Γ SOUR	CE IDENTIFICATION PROCESS	2-1
	2.1			
		2.1.1	State/County/Local Business License Processes	
		2.1.2	County & City Chamber of Commerce	
			Regional Telephone Directory (i.e., WinPhone, PhoneDisc '95, etc.) . Databases of Corporate Affiliations (e.g., Business Dunn and	. 2-5
			Bradstreet)	2-5
			Department of Industry & Trade/Commerce	
	2.2			
		2.2.1	State Department of Revenue	
		2.2.2	State and Local Agency Resources	2-6
		2.2.3	Toxic Release Inventory	2-7
		2.2.4	EPA's RCRA Hazardous Waste Disposal Notification Database	2-7
	2.3	Step 3		2-8
			Industry Representatives	
			Trade Associations	
		2.3.3	Equipment & Raw Material Suppliers/End Product Users	2-9
3.0	COLL	OCATE	D SOURCES	3-1
	3.1		ation, Federally Enforceable Limits, and PTE Policy	
4.0	RESU	LTS OF	PILOT TESTING FOR EXISTING MACTS AND STATE	
	GENE	ERATED	LIST	4-1
	4.1	State of	f New York MACT Source Identification Pilot Study	4-1
		4.1.1	CD-ROM Databases	4-1
		4.1.2	Chromium Electroplaters	
		4.1.3	Wood Furniture Manufacturers	4-3
			Conclusion	
		4.1.5	Other CD-ROM Databases	4-5

TABLE OF CONTENTS (Continued)

<u>Section</u>	<u>P</u> 2	<u>age</u>			
4.2	State Of Georgia Halogenated Solvent Cleaning				
	Machine Pilot Study				
	4.2.1 Introduction				
	4.2.2 Study and Results	4-6			
	4.2.3 Conclusions	4-6			
	4.2.4 Collocated Sources				
	4.2.5 Wood Furniture Cookbook	4-8			
4.3	Florida Source Identification Pilot Study	4-8			
4.4	Illinois Environmental Protection Agency (IEPA)	-10			
APPENDIX A	ı.				
APPENDIX E					
APPENDIX C					
APPENDIX D					
APPENDIX E					
APPENDIX F					
APPENDIX C	y J				

ACKNOWLEDGMENT

This document was prepared by the U.S. Environmental Protection Agency as a result of Brown Summit II, April 10-12, 1995, in North Carolina. This document is the result of a joint effort of the following workgroup: Anthony Toney, Linda Anderson-Carnahan, USEPA Region 4; John Schaefer, EPA OAQPS; Jeff Kenknight, EPA OECA; Susan Fields, Nebraska Department of Environmental Quality; Jimmy Johnston, Art Stelson and Cindy McAlpine, Georgia Environmental Protection Division; Mary Sullivan Douglas, STAPPA/ALAPCO; Hank Naour, Illinois EPA, Bureau of Air Quality; Sarah Laumann, Colorado Department of Health; John Glunn and Alex Meng, State of Florida Department of Environmental Protection; Thomas Gentile and Barbara Nuffer, New York State Department of Environmental Conservation.

EPA would like to thank all individuals that contributed their efforts toward the development of this project. Your assistance is duly noted and appreciated.

NOTICE

This document has been reviewed in accordance with U.S. Environmental Protection Agency policy and approved for publication. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

1.0 INTRODUCTION

1.1 Purpose

The primary purpose of this document is to provide State and local environmental regulatory agencies guidance for identifying and compiling a list of sources subject to regulation under section 112(d) of the Clean Air Act as amended in 1990. In general, this document contains guidelines and/or procedures on suggested activities which can be undertaken to identify such sources subject to maximum available control technology (MACT) standards. Use of this document will facilitate the efficient implementation of all MACT standards and ensure the level of environmental protection mandated by the Act. The document assumes a general knowledge of title III of the Act and the promulgated regulations thereto. Readers not familiar with these programs should refer to the sections mentioned in the "Background" and to the General Provision for MACT implementation, 40 CFR 63, Subpart A. This document should clarify typical questions regarding source identification and should help facilitate the development of comprehensive lists of affected facilities. As we learn more through the actual process of source identification, this document will be revised accordingly. It is hoped that this document becomes an evolving, "living document" that will experience continuous improvement through the fine tuning of the source identification process.

1.2 **Background**

Critical to an agency's success in limiting hazardous air pollutant emissions is its ability to identify sources subject to MACT standards. Listings of specific sources subject to MACT or procedures that can be used to identify sources within a jurisdiction are necessary for a number of reasons. The resources required of a regulatory agency to implement a standard will be a function of the number of sources subject to the MACT. Further, because some sources will not be required to obtain a title V permit, state and local agencies willing to oversee implementation of such standards for non-Part 70 sources need to be able to gauge the resources required in order to

make a commitment. Finally, sources must be easily and quickly identified to facilitate the transfer of information on new standards.

During an April 1995 meeting of EPA OAQPS, OECA, OGC and Regional Offices with State and Local air program representatives (Brown Summit II), one of the action items identified included the development of a standard method to identify sources subject to MACT standards. The workgroup convened on this action item envisioned the development of a "cookbook" for this process.

1.3 MACT Implementation Schedule

With the promulgation of each MACT standard, there are several administrative actions which must be undertaken in a relatively short time-frame. These requirements dictate the need for a comprehensive listing of subject sources. A comprehensive listing of subject sources will ensure the proper allocation of resources by the implementing agencies. Although MACT requirements will vary depending on whether a source is an existing, new area or new major facility, the main events for a facility subject to MACT standards (primarily major sources) are listed below:

- 1. Source submits an initial notification no later than 120 days after the effective date of a relevant standard.
- 2. Source submits a notification at least 60 days before conducting a performance test; at least 30 days before conducting opacity and visible emission observations.
- 3. A source submits a notification of compliance status within 60 days after the performance test.

The above listed activity deadlines may be overridden by the specific requirements listed in an individual MACT standard.

2.0 MACT SOURCE IDENTIFICATION PROCESS

Ideally, in the process of developing a MACT for a source category, EPA will attempt to identify all of the subject facilities in the process of gathering information for the standard. It is anticipated that specific information (i.e., names and addresses) on subject sources will eventually be made available by EPA on an electronic database. Unfortunately, a survey of MACT development project leaders suggests that a complete listing of sources has not and will not be available in many cases. Furthermore, state and local agencies have sometimes found that lists provided by EPA can be inaccurate, incomplete or outdated. Although this document will be applicable to all MACT source categories, we have initially identified two generic groups of hard to locate sources to which this document will predominantly apply: 1) small, numerous sources (e.g., dry cleaners); and 2) co-located sources (e.g., halogenated solvent cleaning operations). Appendix A contains a listing of the MACT categories and identifies those standards for which a complete list of subject sources will likely not be available from EPA. The table also contains the anticipated SIC codes for the source category, the estimated number of subject facilities, their trade associations, and whether the sources are expected to be collocated in other source categories.

Contained in this section are procedures which can be used to assist in the identification of sources potentially subject to MACT standards. The procedures outlined in this section should provide the most effective mechanism for source identification. The initial steps of the following source identification procedure are designed to provide a comprehensive list of sources potentially subject to the standard in question. Subsequent steps in the source identification process will serve to narrow down the list to the sources most likely to be subject to the standard. This series of steps has been constructed so that at any time during the source identification process, if the implementing agency feels comfortable that the list is adequate and sufficient, the agency may decide that it is more efficient to contact all sources identified as opposed to taking additional steps to narrow down the universe. Implementing agencies may wish to perform the various steps as they deem appropriate given the nature of the source category and the agency's available resources (i.e., it may be appropriate to omit early steps and perform the later steps).

While EPA does not have access to all information necessary to assist in identifying every affected source, this document contains a prioritized list of resources which could greatly enhance the process of source identification. Because many of the resources available to state and local agencies use the Standard Industrial Classification (SIC) codes to identify facilities, the first and primary step in the identification process is to compile a list of potentially applicable SIC codes. A partial listing of SIC codes may be obtained from Appendix A and/or the Background Information Documents (BID) for each source category as identified by Project Number in Appendix D. During the standard development process, EPA attempts to identify a list of facility SIC codes in which the processes subject to the MACT may be located. This information is made a formal part of the BID and is maintained as a part of the docket for each respective MACT standards. However, the list of SIC codes identified may not be comprehensive because the facilities operating within each particular source category type are not specific to that one manufacturing process. In the initial stages of MACT development, OAQPS & ORD Environmental Criteria and Assessment Office make every effort to generate a listing of potential sources subject to standard. After the proposal, information from the docket may be secured from each respective MACT project lead. A list of the current MACT project leads has been

included as Attachment D of this document. After the MACT standard has been proposed, the docket information may be obtained from the EPA Docket Center or the OAQPS MACT project lead. As previously mentioned, it is hoped that OAQPS will eventually make the list of sources identified for each MACT available through an electronic bulletin board system. Such a system would also allow users to share additional information on source identification techniques as well as outreach materials developed by different agencies.

Source identification will usually be a multi-step process which may include the following activities: (1) development of a list of potential sources; (2) determining which sources are actually employing the regulated process/equipment or emit the hazardous air pollutant (HAP); and (3) determining which sources are potentially major, those that will probably seek synthetic area status, and those which are area sources. The reliability of these listings can be greatly enhanced through the use of databases, correspondences/dialogue with possible sources, site visits, agency knowledge and expertise, etc. Throughout the identification process, the implementing agency should review the generated lists and determine their usefulness. If a list consists of numerous sources which are obviously not subject to the specific standard, that particular database may not be appropriate for this process. This situation may occur when the SIC code is too broad. The recommended activities and/or resources for identifying sources are listed below:

2.1 <u>Step 1</u>

The EPA will make every effort to provide as much information on specific sources as possible. The EPA will distribute (or make reasonably available) to each Regional Office the source identification information obtained during the standard development process. Each Regional Office will in-turn disseminate information to the respective implementing agencies. Using these lists and the information in this "cookbook", each agency should review the information to determine if any additional identification activities are warranted. Additionally, as a result of another Brown Summit II action item, EPA is working with state and local agencies to

develop an interactive, electronic bulletin board system to disseminate and receive information on section 112. It is anticipated that a list of identified sources subject to each MACT standard, by state, will be available on this system.

Starting with the list of facility SIC codes in which the processes subject to the MACT may be located (and any additional information available from the EPA), there are a number of databases and information sources that can be used to locate the names and addresses of potentially subject facilities. Lists developed from the following databases should be cross-checked against each other to enhance the level of accuracy of the final product, to better define actual functions of facilities (users vs. Sellers), and to eliminate duplicitave listings from the final list. Outlined below is a listing of such databases and/or resources:

2.l.1 State/County/Local Business License Processes

Within each state, county, or local governmental structure, there should be an entity responsible for issuing business licenses. These agencies should have the capacity to download information via a computer based on SIC codes or facility types and provide a list of facilities potentially subject to a specific MACT standard, including names and mailing addresses. These resources are usually housed within the Revenue and License Departments. Generally, there is a service charge for the compilation of this information.

2.1.2 County & City Chamber of Commerce

Chambers of Commerce offices have the capability of supplying a listing of facilities within their jurisdictions or memberships that fall within specified SIC categories. These offices may be contacted as to the specific procedures one must follow. There maybe a fee for such services in some areas.

2.1.3 Regional Telephone Directory (i.e., WinPhone, PhoneDisc '95, etc.)

This directory provides a comprehensive listing of all businesses which serve in some capacity, e.g., sales, manufacturing, repair, etc., under the respective SIC codes. The list is not always reliable because many listed organizations are not producers or users of the HAPs. Additionally, the source's operations (e.g., name, location) may have changed, reducing the accuracy of the information. One can specify the business type by either its SIC code or by selecting a key word or phrase. A word of caution, the address provided by this database is the physical location, not the mailing address. Telephone directories of this type may generally be obtained from any retail store that sells software packages, e.g., Office Depot, Best Buys, Compuworld, etc. PhoneDisc is a common brand name that is generally available. Additional information on PhoneDisc can be obtained by calling 1-800-284-8353 or (617) 639-2900.

2.1.4 Databases of Corporate Affiliations (e.g., Business Dunn and Bradstreet)

Database software systems such as Dunn & Bradstreet contains a vast amount of useful business information. Included in the database are parent companies headquartered in the United States and their subsidiaries, affiliates, and joint ventures. Dunn and Bradstreet offers an easy way to identify facilities (name and location) and corresponding information such as type of business and contact persons, based on various forms of facility identification information, including SIC codes. With Dunn and Bradstreet, one can enter the SIC code or type of business and generate a listing of facilities within the database that are compatible with the specific search parameters. Additionally, Dunn and Bradstreet publishes a multi-volume Directory of Corporate Affiliations which is the hard copy form of the Dunn and Bradstreet CD ROM version. These type software packages may be obtained at various local retail computer software stores (Dunn and Bradstreet database system can be obtained by contacting 1-800-234-3867).

2.1.5 Department of Industry & Trade/Commerce

Within each state's governmental structure, the State Department of Industry and Trade or Commerce has the capability of compiling an annual listing of all manufacturing facilities operating during that fiscal year. The sources can be identified by SIC or facility type. A copy of this publication can be obtained through the respective state's Industry and Trade or Commerce office. The fee for this directory is generally less than \$100.00.

2.2 Step 2

To better refine the list of potential sources generated from the various databases, each agency should then, to the extent possible, verify the list using the resources listed below which should have available a more reliable list of known and currently operational facilities.

2.2.1 State Department of Revenue

By canvassing the data sources above, a comprehensive list of potential-subject sources may be generated. However, these references may not be completely up to date. A cross check against recent annual taxation records may serve to narrow the list to currently operating facilities.

2.2.2 State and Local Agency Resources

Within each state and local agency there exists a wealth of knowledge relating to the location, operation, and existence of sources located in the jurisdiction of the implementing agency. Such in-house resources include: Enforcement staff, Small Business Assistance Program, State.

Pollution Prevention Assistance Programs, State/Local Municipal Waste Treatment Programs, state and local emission inventories, etc. Both staff and program documents may

provide valuable leads and timesaving information. The Emission Inventory Development Guidance published by EPA can serve as a valuable resource in the identification of sources.

2.2.3 Toxic Release Inventory

It may be possible for regulatory agencies to further refine the list of potential sources subject to a MACT through the use of the TRI database. Using the HAPs targeted by the MACT for subject facilities, a cross check of the list generated by the above steps against a TRI list of facilities with air emissions of targeted HAPs may reveal companies that are less likely to be subject to the standard, regardless of their SIC code. One drawback of TRI is that many industries/sources are exempt from its requirements. Also, TRI does not cover all HAPs. The TRI database may be used to identify covered sources missed in steps 1-7. In this case, a list of sources filing TRI reports of major emissions of the targeted HAPs is reviewed. This technique may be especially useful when attempting to identify co-located MACT sources. (See Section 2.1 below)

2.2.4 EPA's RCRA Hazardous Waste Disposal Notification Database

This database provides a cross-media search function for facilities which are currently regulated by EPA. Searches within this database may be performed using specific facility information such as SIC codes, chemical names, chemical releases, etc. Regulatory agencies can manipulate this database to refine the list generated from steps 1-8 in the same way that the TRI database is used.

2.3 Step 3

The following are additional resources that can be consulted for information on subject sources. In many cases, it may not be possible to secure facility names and addresses from these sources. However, these entities may be amenable to performing various outreach efforts and

distributing information pertaining to the rules (e.g., source applicability and notification forms). If it is possible to secure a list of facilities from these sources, agencies may wish to utilize this approach rather than to rely on SIC codes to develop a list of subject sources.

2.3.1 Industry Representatives

One resource often overlooked is industry experts themselves. When contact is made with a source owner, operator, or environmental officer, much useful information may be obtained. It is important that an agency representative present such a request as an effort to help potentially covered sources get the information they need to achieve compliance. Such a request might be presented in this way: "Do you know of anyone else that might be subject to this rule? I'd like to get the information out to everyone so they'd have as much lead time as possible to consider the implications of the rule."

2.3.2 Trade Associations

Regulatory agencies can solicit from national, regional or state associations, lists of members which identify location and contact personnel for the facilities, or at a minimum, a list of industry types which may be subject to the particular MACT standard. Trade associations providing state and local agencies with a list of potentially subject facilities for outreach purposes may benefit by increasing membership through offering meetings at which EPA makes presentations on MACT standards. Implementing agencies also have the opportunity to publish articles, notices, or announcements in trade journals for the affected industries. Although developed by and for the State of Wisconsin, Attachment G contains a list of trade associations generally located in each state which are related to various MACT categories.

2.3.3 Equipment & Raw Material Suppliers/End Product Users

Suppliers of raw materials (e.g., chlorinated solvents) and users of end products may provide an additional resource of information on sources subject to MACT standards. Agencies should contact the users or distributors of specialty products, materials, chemicals, or any raw materials used in processes which are subject to MACT regulation, in an effort to obtain information on the types of facilities, known users, etc.

3.0 COLLOCATED SOURCES

For many Part 63 standards, the regulated process is a small part of an overall manufacturing process (i.e., degreasers, cooling towers, etc.). In these cases, the primary SIC code of the facility in which the processes are located may be chiefly indicative of the primary manufacturing process, rather than possible subordinate activities. For such collocated sources, the databases and information resources listed in steps 1-6 may fail to generate a comprehensive list of sources comprising the regulated activities. Therefore, additional efforts may be required to generate an accurate list of the most likely collocated sources.

First and foremost, collocated HAP sources are for the most part located at <u>major</u> HAP sources. Such sources, because they are major, will be required to obtain title V permits, and usually, will be required to file annual emission inventories to support the title V fee assessment. This mechanism can be utilized both directly and indirectly.

By working with the title V and emission inventory staff, the Title V permit application and annual emission inventory forms can be crafted to <u>directly</u> identify activities which are routinely collocated, such as degreasers, cooling towers or small boilers. For example, the form could include a question tied to to a positive report of halogenated organic compounds, such as "does the facility employ halogenated degreasing processes?" For collocation of other HAP-emitting activities subject to various actual or scheduled MACT standards, collocated activities may be identified indirectly, through review of the actual title V permit applications or annual emission inventories submitted by major HAP sources.

The permit application should identify all emission units responsible for emissions of regulated pollutants, and provide enough information to identify most activities subject to major MACT standards. If the application does not clearly indicate a source's status relative to other MACT standards, HAPs reported in the annual emission inventory may suggest that collocation may be involved.

An example of a collocated source could involve chromium electroplating collocated with miscellaneous metal parts and products (surface coating) or reinforced plastics composite production (the primary activity identified by the facility SIC code). Chromium electroplating is often associated with metal parts manufacturing which is included in several surface coating source categories, and could easily be distinguished from galvanizing (which is not included in a listed source category) in the operating permit application itself. On the other hand, chromium electroplating is less common at facilities involved in reinforced plastic composite production, but would be suggested by chromium emissions reported in the annual emission inventory.

To obtain a greater sense of reliability, the list of sources identified through these activities may be refined through various outreach efforts including mail-outs or questionnaires to verify their status relative to suspected source categories. The level of effort expended by this process will be governed by agency confidence in the quality of the list at this stage, as well as available resources.

3.1 <u>Collocation, Federally Enforceable Limits, and PTE Policy</u>

In a memorandum dated May 16, 1995, from John Sietz, Director, EPA, OAQPS, relating PTE timing issues, the applicability of MACT for collocated sources was presented. In brief, the memo states that if a facility contains equipment or processes included in multiple source categories, it is possible that after application of the initial MACT or an earlier MACT standard reducing the HAP PTE, the status of the source relative to the remaining source categories may be changed. If compliance with a MACT standard revises a facility's PTE to a level below major source thresholds, the facility would not be subject to subsequent major source MACT standards.

Additionally, the memo indicates that a facility may elect to take federally enforceable limits to lower its PTE below major source thresholds, thereby avoiding the applicability of major MACT standard(s). This option is available to covered sources up until the first compliance date in **each** major MACT standard. Therefore, a source subject to multiple MACT standards might

avoid the applicability of all standards by limiting its source-wide PTE before the first compliance date in any of the standards.

Voluntary federally enforceable limits may also be taken by a source subject to multiple MACT standards when compliance with a given standard or standards does not sufficiently reduce the source's PTE. Such a HAP source may avoid coverage under subsequent standards by taking additional voluntary federally enforceable limits until its source-wide PTE is below the major source threshold, provided that the limits are taken before the first compliance date in each of the standards it wishes to avoid.

Neither of these scenarios would relieve the facility from the applicability of those MACT standards whose initial compliance date passed before the necessary reductions in PTE were achieved. This "once major, not always major" policy is expected to reduce the burden of MACT standards on collocated sources. However, the policy does complicate the identification of sources subject to major source MACT standards, particularly if those standards are promulgated within a relatively short time. In situations such as these, agencies may wish to identify sources which have equipment or processes covered by the MACT standard as an initial step, and subsequently determine major source applicability through additional correspondence or outreach.

4.0 RESULTS OF PILOT TESTING FOR EXISTING MACTS AND STATE GENERATED LISTS

A number of states pilot tested the MACT identification approaches using lists of sources previously generated by the regulatory agency for existing MACT standards for comparison. The following section documents the findings of these pilots.

4.1 <u>State of New York MACT Source Identification Pilot Study</u>

4.1.1 CD-ROM Databases

CD-ROM databases can be a valuable resource for identifying businesses in specific industries. These businesses can be sorted by SIC (Standard Industrial Classification) codes or Yellow Page headings. These databases can be used to create mailing lists of sources who may be subject to regulations under Section 112(d) of the Clean Air Act as amended in 1990.

The best place to start a search for these databases is in your state library. The New York State Library has a business CD-ROM database available for use by New York State employees. We have used this resource extensively to explore the potential for creating source lists and discovered positive as well as negative features. Other databases have been located but not researched and will be listed as potential resources. Most of these databases are available on a trial basis before purchase for your own research, and we recommend that this be done.

We tested the American Business Disc (ABD), from American Business Information, Inc. (1-900-555-5211). The following information is contained on the disc:

- 1. Company name
- 2. Address
- 3. Phone number

- 4. Number of employees
- 5. Estimated sales volume
- 6. Credit rating code
- 7. SIC code
- 8. Line of business description

You can perform the following searches:

- 1. Geography- city, state, ZIP code, county or total U.S.
- 2. Company name
- 3. Yellow Page keyword
- 4. SIC code
- 5. Employee size range
- 6. Sales volume

Although you can download or print these records this can only be done for 50 records at a time. The company will prepare more extensive lists for you for a fee. Since some of our lists were in the 2,000 sources range, this was a major problem.

We extensively researched two industries with source lists previously compiled from other databases, chromium electroplaters and wood furniture manufacturers, to cross check the capability of the ABD to reproduce a similar list. These two searches were analyzed separately.

4.1.2 Chromium Electroplaters

It is impossible to sort out chromium electroplaters from general electroplaters based on either SIC codes or Yellow Page keywords. We used the SIC code for Electroplating, Plating and Polishing 3471. We found 268 sources in New York State using the ABD database, 178 sources were identified using the New York State Department of Labor (DOL) list of SIC

code 3471. The New York State Department of Environmental Conservation (DEC) currently has 111 chromium electroplaters permitted in New York State. Only 67 of these 111 sources were found on the ABD.

We have also cross-checked our permit information on chromium electroplaters with notification forms received by the USEPA Region 2 Office. This cross-check indicated more direct outreach to NESHAP affected sources is needed. The Region 2 list also identified 11 additional platers who were not found in our current permit system. However, 8 of these 11 were listed on the ABD.

The ABD did not prove to be totally inclusive, but it contained more sources than the DOL listing. Attachment F is a list generated using the ABD as well as a printout of a detailed look at a specific business.

4.1.3 Wood Furniture Manufacturers

A useful resource to identify SIC codes to use for searches is contained in EPA's Sector Notebook on the Wood Furniture Industry. Page 5 contains a listing of the codes to use for the wood furniture manufacturing industry. The codes identified are 2511, 2512, 2517, 2521, 2531, and 2541 are as follows:

	DOL	ABD
SIC CODE	Number of Sources Identified	
2511	178	69
2512	43	30
2517	5	6
2521	43	28
2531	11	32

	DOL	ABD
SIC CODE	Number of Sources Identified	
2541	102	66
TOTAL	382	231

This comparison is not very impressive for the ABD list. However, SIC codes are frequently listed incorrectly on the DOL listings and since this particular industry has a large number of similar SIC codes, the number of businesses could be due to inaccuracies in the assignment of SIC codes.

We identified 21 sources on our DEC list of permitted facilities who were most likely to be subject to the wood furniture NESHAP. We found 13 of the sources on the ABD.

One problem with searching by company name is that if you have any misspellings or incorrect names you cannot find them on the ABD. Our permitted sources' names are not always 100% accurate or the names may have been changed slightly. These possible discrepancies may also explain the low number for this count.

4.1.4 Conclusion

As you can see from these two very different analyses, the ABD has proven useful but not foolproof. A listing of permitted sources from your state agency is the best place to start to locate specific industries. However, we know that these lists are not complete and it is useful to have a resource to create listings based on SIC codes or Yellow Page keywords. This database is very useful when you want to do a search of businesses based on the number of employees (e.g., to target small businesses who would be eligible for the Small Business Stationary Source Technical and Environmental Compliance Assistance Programs that are located in each state, as mandated by the Clean Air Act). Also, you can search by sales volume and determine the largest businesses, which may produce high emissions. Accuracy of company names is a must when

using this database. The biggest problem with the ABD is the ability to download only 50 sources at a time.

4.1.5 Other CD-ROM Databases

Harris Publishing's New York Manufacturers Directory (1-800-888-5900). These editions are available for other states. The information provided includes: company name, address, phone and fax numbers, and SIC codes. It is available as a book or in DOS or Windows versions on diskette or CD-ROM. The cost varies depending on the size of your state. Demonstration diskettes are available.

American Business Information's American Yellow Pages (1-800-555-5666). This database is for the United States. It includes Yellow Page headings and company names. It is available on CD-ROM and you can perform searches by company name and Yellow Page headings. You can download to many label formats to create mailings.

DDA PhoneDisc Business 95. This product was found in the catalog "Windows Warehouse." The information provided includes: company name, business type, address and phone number. Searches can be done based on each of these items.

4.2 <u>State Of Georgia Halogenated Solvent Cleaning Machine Pilot Study</u>

4.2.1 Introduction

A pilot study was initiated for EPA Region 4 by the State of Georgia's Environmental Protection Division to explore methods of locating MACT Standard or NESHAP affected facilities. The particular MACT Standards chosen for the pilot test were 40 CFR Part 63, Subpart T, Halogenated Solvent Cleaning Machines, commonly called the Degreaser Standard. Three approaches were explored:

- 1. Locating sources using the SIC code list supplied with the MACT Standard and the ProPhone phone directory.
- 2. Locating sources using the SIC code list supplied with the MACT Standard and the Georgia Manufacturing Index.
- 3. Locating sources using ProPhone and the SIC codes from sources submitting Initial Notifications for the MACT Standard.

4.2.2 Study and Results

Using ProPhone and the Georgia Manufacturers Index (GMI), we were able to identify matches for two SIC codes (3442 and 3691) contained in the MACT Standard. ProPhone had 27 matches for SIC code 3442 and 124 matches for SIC code 3691. GMI had 64 matches for SIC code 3442 and 12 matches for SIC code 3691. Of the identified sources from GMI and ProPhone, none were on our Initial Notification list. When the listings were reviewed by inspectors, they indicated that none of the listed sources had degreasers. When compared to our State listing, we found one additional source which had failed to report their existence due to an oversight. When attempting to locate degreasers based on the list of SIC codes of reported degreasers, the list from ProPhone and GMI expanded to more than 3,000 facilities which is the opposite trend we anticipated. Thus, we concluded that the procedure we initially used, which was to send every source in the GMI a degreaser informational packet, was the most effective method to insure proper notification of every source in Georgia.

4.2.3 Conclusions

In conclusion, we found the SIC code list from the MACT Standard, the GMI, and ProPhone directories did not adequately locate degreasers or halogenated solvent cleaning machines in Georgia. In addition, we were only able to locate one additional source by actual inspection of the facilities and that source failed to notify us by oversight. Thus, we conclude that the initial approach we used, mass mailing, was the most effective in publicizing the MACT

Standard and getting sources to report the existence of halogenated solvent cleaning machines. The additional paragraph on collocated sources is included for additional insight.

4.2.4 Collocated Sources

One problem facing state regulators is the identification of collocated sources. To give insight into this problem, we chose two related MACT Standards and made a list of sources reporting both affected processes. The MACT Standards we chose were halogenated solvent cleaning machines (40 CFR Part 63 Subpart T) and chromium electroplaters (40 CFR Part 63 Subpart N).

Source	Location	SIC Code
Delta Airlines Technical Operations Center	Atlanta, GA	4512
Hercules Automotive Products, Inc.	Pelham, GA	Unknown
Lockheed Systems Company	Marietta, GA	3721
Northwest Airlines Technical Operations	Atlanta, GA	4512
Robins Air Force Base	Robins AFB, GA	9711
Roper Pump Company	Commerce, GA	Unknown

As indicated in the sample above, with the exception of the majority of sources seemingly being related to the aerospace industry, there isn't any particular trend indicating the collocation of these processes. Thus, one could conclude that the locating process for these MACT Standards would require individual searches for these processes. Lastly, the presence of one process at a facility would not necessarily indicate both are present onsite.

4.2.5 Wood Furniture Cookbook

The same procedures were conducted on the Wood Furniture MACT. Using the GA Manufacturers Index, there were 465 sources identified. The WinPhone'96 database contained 950 sources with 85 duplicates within database. When comparing the two databases, there were

194 sources identified in Winphone that were also contained in the GMI database. However, GMI had more complete data on sources. Sources potentially subject to the wood furniture standard were listed in SIC codes: 2434, 2511, 2512, 2517, 2519, 2521, 2531, 2541, 2599, and 5712. SIC Code 5712 included manufacturers & retail stores. Code 5712B is manufacturers of custom furniture. The other 5712's (A, C, etc) were retail stores, for which there were thousands of listings. Those listed as only 5712 were included in our reporting, although, this approach may have inadvertently included some retailers. The GMI database was seemingly was incomplete. USEPA's AIRS database had only 5-6 sources. A survey of major and synthetic minor sources only identified a few facilities. All of which were contained on GMI and/or WinPhone.

4.3 Florida Source Identification Pilot Study

Over the last year, the Florida DEP and the Florida Air Toxics Work Group, composed of district and county air program staff, have worked together to develop a mechanism for identifying facilities potentially subject to upcoming MACT standards. This database, known as TINS, or the Toxics Inventory System, is about to become fully functional and will play a role in Florida's efforts to locate and outreach to facilities which may become subject to new federal air rules.

The TINS database is a stand alone subpart of the Department's oracle Air Resources Management System (ARMS) database and can be accessed through the same procedures. TINS will contain information about facilities which may be subject to upcoming rules, and therefore the files will remain separate from the ARMS system. However, when a qualified user provides the TINS database with the information that signifies that a TINS facility is subject to a promulgated rule, the TINS facility file will be transferred to ARMS and thereafter directly available through the ARMS database.

The TINS database uses publicly and commercially available industry databases such as the Directory of Florida Industries, the Toxics Release Inventory, and others to generate files of facilities that may be subject to an upcoming or recently promulgated rules. A form letter can be automatically generated which identifies the MACT rule, its applicability, the initial notification requirements and the address of the agency to receive the facility's notification form.

When a new or proposed MACT is issued, it is anticipated that the Department's Air Toxics Section will develop the initial TINS facility identification files from an available industry database and generate letters to the facilities informing them of the rule applicability and notification requirements. Districts and local program staff may also review the TINS if, to their knowledge, additional facilities exist that may be subject to the rule, enter the necessary facility information and generate letters to those facilities.

After an affected facility sends an initial notification to the appropriate permitting agency, the agency staff can enter a code in a TINS screen that indicates that the facility is subject to the promulgated rule. When this occurs, the facility's file is transferred to the ARMS database and the facility is subsequently tracked as a regulated facility. TINS can also generate reports, such as identified facilities, returned notifications and MACT affected SIC codes.

The TINS database was developed primarily to help with identifying small area sources such as vapor degreasers and chrome electroplaters that are subject to recently promulgated MACT standards. We recognized that ARMS may not have records of these facilities, and they may not be covered by the Toxics Release Inventory either. A versatile, yet simple computer program was needed that could utilize various industry databases to identify these smaller operations.

As the list of candidate general permits continues to grow and the Department searches for ways to make suitable facilities aware of this permitting mechanism, it may be feasible to use the TINS database as a means for targeting appropriate facilities and for sending fact sheets to the facility's address. The TINS database is navigated using the same commands as the ARMS database and can be learned rather quickly.

Appendix C contains replicas of the computer screens in TINS and the directions for its intended users. A sample form letter that can be generated from TINS is also attached. For more information about the design and use of the TINS database, please call John Glunn at (904) 488-0114. To learn more about the functional properties of TINS or for programming information, please call Alex Men at the same number.

4.4 <u>Illinois Environmental Protection Agency (IEPA)</u>

IPA has used a number of cookbook elements in determining the NESHAP effected sources in Illinois; the top four sources are D&B, Department of Revenue for both the State and Chicago, Department of Commerce, and Trade Associations;

These four resources supplemented our standard database (IEPA files, title V data, state permitting data, AT telephone CD-ROM data) and resulted in significant increases in "hits" for potential effected sources.

For the Dry Cleaning standard, the Allied Trade Associations resulted in an additional 260 Dry Cleaning sources for consideration; the Chicago Dept. of Revenue added an additional 10 chrome electroplaters; and the State DAR resulted in an additional 2400 solvent cleaning "hits."

IPA is reviewing the CD-ROM telephone directory the Cookbook highlighted and is expected to establish Agency-wide access to the database.

One of the better sources has turned out to be the Allied Trades Associations. The solvent cleaning suppliers have also been very cooperative in working with us and their customers in learning about the standard and understanding the reporting and control requirements.

APPENDIX A

APPENDIX B

FUEL COMBUSTION

Category	<u>Promulgation</u>
Industrial Boilers	11/15/2000
Institutional/Commercial Boilers	11/15/2000
Process Heaters	11/15/2000
Stationary Internal Combustion Engines	11/15/2000
Stationary Turbines	11/15/2000

NON-FERROUS METALS PRODUCTION

<u>Category</u>	<u>Promulgation</u>
Secondary Lead Smelting	11/15/94
Primary Aluminum Production	11/15/97
Primary Copper Smelting	11/15/97
Primary Lead Smelting	11/15/97
Secondary Aluminum Production	11/15/97
Primary Magnesium Refining	11/15/2000

FERROUS METALS PROCESSING

<u>Category</u>	<u>Promulgation</u>
Coke Ovens: Charging, Top Side and Door Leaks	11/15/92
Ferroalloys Production	11/15/97
Steel Pickling - HCl Process	11/15/97
Coke By-Product Plants	11/15/2000
Coke Ovens: Pushing, Quenching, and Battery Stacks	11/15/2000
Integrated Iron & Steel Manufacturing	11/15/2000
Iron Foundries	11/15/2000
Steel Foundries	11/15/2000

MINERAL PRODUCTS PROCESSING

<u>Category</u>	<u>Promulgation</u>
Mineral Wool Production	11/15/97
Portland Cement Manufacturing	11/15/97
Wool Fiberglass Manufacturing	11/15/97
Alumina Processing	11/15/2000
Asphalt Concrete Manufacturing	11/15/2000
Asphalt Processing	11/15/2000
Asphalt Roofing Manufacturing	11/15/2000
Asphalt/Coal Tar Application - Metal Pipes	11/15/2000
Chromium Refractories Production	11/15/2000
Clay Products Manufacturing	11/15/2000
Lime Manufacturing	11/15/2000
Taconite Iron Ore Processing	11/15/2000

PETROLEUM AND NATURAL GAS PRODUCTION

Category	Promulgation
Petroleum Refineries - Other Sources Not Distinctly Listed	11/15/94
Oil and Natural Gas Production	11/15/97
Petroleum Refineries - Catalytic Cracking (Fluid and Other) Units and Sulfur	11/15/97

LIQUIDS DISTRIBUTION

Category	<u>Promulgation</u>
Gasoline Distribution (Stage 1)	11/15/94
Organic Liquids Distribution (Non-Gasoline)	11/15/2000

SURFACE COATINGS PROCESSES

Category	Promulgation
Aerospace Industries	11/15/94
Magnetic Tapes (Surface Coating)	11/15/94
Printing/Publishing (Surface Coating)	11/15/94
Shipbuilding and Ship Repair (Surface Coating)	11/15/94
Wood Furniture (Surface Coating)	11/15/94
Auto and Light Duty Truck (Surface Coating)	11/15/2000
Flat Wood Paneling (Surface Coating)	11/15/2000
Large Appliance (Surface Coating)	11/15/2000
Manufacture of Paints, Coatings and Adhesives	11/15/2000
Metal Can (Surface Coating)	11/15/2000
Metal Coil (Surface Coating)	11/15/2000
Metal Furniture (Surface Coating)	11/15/2000
Miscellaneous Metal Parts and Products (Surface Coating)	11/15/2000
Paper and Other Webs (Surface Coating)	11/15/2000
Plastic Parts and Products (Surface Coating)	11/15/2000
Printing, Coating, and Dyeing of Fabrics	11/15/2000

WASTE TREATMENT AND DISPOSAL

Category	<u>Promulgation</u>
Solid Waste, Treatment, Storage and Disposal Facilities (TSDF)	11/15/94
Publicly Owned Treatment Works (POTW) Emissions	11/15/97
Hazardous Waste Incineration	11/15/2000
Municipal Landfills	11/15/2000
Sewage Sludge Incineration	11/15/2000
Site Remediation	11/15/2000

AGRICULTURAL CHEMICALS PRODUCTION

Category	<u>Promulgation</u>
2,4-D Salts and Esters Production	11/15/97
4,6-Dinitro-O-Cresol Production	11/15/97
4-Chloro-2-Methylphenoxyacetic Acid Production	11/15/97
Captafol Production	11/15/97
Captan Production	11/15/97
Chloroneb Production	11/15/97
Chlorothalonil Production	11/15/97
Dacthal (tm) Production	11/15/97
Sodium Pentachlorophenate Production	11/15/97
Tordon (tm) Acid Production	
11/15/97	

FIBERS PRODUCTION PROCESSES

<u>Category</u>	<u>Promulgation</u>
Acrylic Fibers/Modacrylic Fibers Production	11/15/97
Rayon Production	11/15/2000
Spandex Production	11/15/2000

FOOD AND AGRICULTURAL PROCESSES

Category	<u>Promulgation</u>
Baker's Yeast Manufacturing	11/15/00
Cellulose Food Casing Manufacturing	11/15/00
Vegetable Oil Production	11/15/00

This comparison is not very impressive for the ABD list. However, SIC codes are frequently listed incorrectly on the DOL listings and since this particular industry has a large number of similar SIC codes, the number of businesses could be due to inaccuracies in the assignment of SIC codes.

Acrylonitrile-Butadiene-Styrene Production	11/15/94
Butyl Rubber Production	11/15/94
Epichlorohydrin Elastomers Production	11/15/94
Epoxy Resins Production	11/15/94
Ethylene-Propylene Elastomers Production	11/15/94
Hypalon (tm) Production	11/15/94
Methyl Methacrylate-Acrylonitrile-Butadiene-Styrene Production	11/15/94
Methyl Methacrylate-Butadiene-Styrene Terpolymers Production	11/15/94
Neoprene Production	11/15/94
Nitrile Butadiene Rubber Production	11/15/94
Nitrile Resins Production	11/15/94
Non-Nylon Polyamides Production	11/15/94
Polybutadiene Rubber Production	11/15/94

Polyethylene Terephthalate Production	11/15/94
Polystyrene Production	11/15/94
Polysulfide Rubber Production	11/15/94
Styrene-Acrylonitrile Production	11/15/94
Styrene-Butadiene Rubber and Latex Production	11/15/94

POLYMERS AND RESINS PRODUCTION

Category	Promulgation
Acetal Resins Production	11/15/97
Amino Resins Production	11/15/97
Flexible Polyurethane Foam Production	11/15/97
Nylon 6 Production	11/15/97
Phenolic Resins Production	11/15/97
Polycarbonates Production	11/15/97
Reinforced Plastic Composites Production	11/15/97
Alkyd Resins Production	11/15/2000
Boat Manufacturing	11/15/2000
Butadiene-Furfural Cotrimer (R-11) Production	11/15/2000
Carboxymethylcellulose Production	11/15/2000
Cellophane Production	11/15/2000
Cellulose Ethers Production	11/15/2000
Flexible Polyurethane Foam Fabrication Operations	11/15/2000
Maleic Anhydride Copolymers Production	11/15/2000
Methylcellulose Production	11/15/2000
Polyester Resins Production	11/15/2000
Polymerized Vinylidene Chloride Production	11/15/2000
Polymethyl Methacrylate Resins Production	11/15/2000
Polyvinyl Acetate Emulsions Production	11/15/2000
Polyvinyl Alcohol Production	11/15/2000
Polyvinyl Butyral Production	11/15/2000
Polyvinyl Chloride and Copolymers Production	11/15/2000

PRODUCTION OF INORGANIC CHEMICALS

Category	<u>Promulgation</u>
Chlorine Production	11/15/97
Cyanuric Chloride Production	11/15/97
Hydrogen Cyanide Production	11/15/97
Sodium Cyanide Production	11/15/97
Ammonium Sulfate Production - Caprolactam By-Product Plants	11/15/2000
Antimony Oxides Manufacturing	11/15/2000
Fume Silica Production	11/15/2000
Hydrochloric Acid Production	11/15/2000
Hydrogen Fluoride Production	11/15/2000
Phosphate Fertilizers Production	11/15/2000

Phosphoric Acid Manufacturing	11/15/2000
Quaternary Ammonium Compounds Production	11/15/2000
Uranium Hexafluoride Production	11/15/2000

RODUCTION OF ORGANIC CHEMICALS

<u>Category</u>
Synthetic Organic Chemical Manufacturing

Promulgation
11/15/92

MISCELLANEOUS PROCESSES

Category	Promulgation
Commercial Dry Cleaning (Perchloroethylene) - Transfer Machines	11/15/92
Industrial Dry Cleaning (Perchloroethylene) - Dry-To-Dry Machines	11/15/92
Industrial Dry Cleaning (Perchloroethylene) - Transfer Machines	11/15/92
Chromic Acid Anodizing	11/15/94
Commercial Sterilization Facilities	11/15/94
Decorative Chromium Electroplating	11/15/94
Halogenated Solvent Cleaners	11/15/94
Hard Chromium Electroplating	11/15/94
Industrial Process Cooling Towers	11/15/94
Butadiene Dimers Production	11/15/97
Polyether Polyols Production	11/15/97
Pulp & Paper Production	11/15/97
Wood Treatment	11/15/97
Aerosol Can-Filling Facilities	11/15/2000
Benzyltrimethylammonium Chloride Production	11/15/2000
Carbon Black Production	11/15/2000
Carbonyl Sulfide Production	11/15/2000
Chelating Agents Production	11/15/2000
Chlorinated Paraffins Production	11/15/2000
Dry Cleaning (Petroleum Solvent)	11/15/2000
Ethylene Processes	11/15/2000
Ethylidene Norbornene Production	11/15/2000
Explosives Production	11/15/2000
Friction Products Manufacturing	11/15/2000
Hydrazine Production	11/15/2000
Leather Tanning adn Finishing Operations	11/15/2000
Marine Vessel Loading Operations	11/15/2000
Oxybisphenoxarsine/1,3-Diisocyanate Production	11/15/2000
Paint Stripper Users	11/15/2000
Photographic Chemicals Production	11/15/2000
Phthalate Plasticizers Production	11/15/2000
Plywood/Particle Board Manufacturing	11/15/2000
Rocket Engine Test Firing	11/15/2000
Rubber Chemicals Manufacturing	11/15/2000

Semiconductor Manufacturing	11/15/2000
Symmetrical Tetrachloropyridine Production	11/15/2000
Tire Production	11/15/2000

AREA SOURCE CATEGORIES

<u>Category</u>	<u>Promulgation</u>
Chromic Acid Anodizing (Area Sources)	11/15/94
Commercial Sterilization Facilities (Area Sources)	11/15/94
Decortive Chromium Electroplating (Area Sources)	11/15/94
Halogenated Solvent Cleaners (Area Sources)	11/15/94
Hard Chromium Electroplating (Area Sources)	11/15/94

APPENDIX C

APPENDIX D

Table D-1.

	Project		
Project Title	Number	Project Lead	Phone Number
Acrylic/Modacrylic Fibers Production	93/56	Anthony Wayne	(919)541-5439
Aerospace Coating MACT Standard and CTG	91/67B	Jim Szykman	(919)541-4516
Antimony Oxides Production NESHAP	96/13	Conrad Chin	(919)541-1512
Architectural and Industrial Maintenance Coatings	89/12	Ellen Ducey	(919)541-5408
Asbestos MACT/GACT Standard	80/41A	Susan Zapata	(919)541-5167
Asphalt Roofing and Processing NESHAP	95/04	Juan Santiago	(919)541-1084
Baker's Yeast Manufacturing MACT	94/13	Anthony Wayne	(919)541-5439
Boat Manufacturing Neshap	95/15	Madeleine Strum	(919)541-2383
Case-by-Case MACT Database (Guidance Document)	93/11	Susan Zapata	(919)541-5167
Chlorine Manufacturing NESHAP	92/10	Iliam Rosario	(919)541-5308
Chromium Chemicals Manufacturing	93/51	Iliam Rosario	(919)541-5308
Chromium Elecroplating MACT Standard	85/02A	Lalit Banker	(919)541-5420
Chromium Refractories Manufacturing NESHAP	95/07	Susan Zapata	(919)541-5167
Coke By-Product Plants	95/28	Lula Melton	(919)541-
Combustion (Gas) Turbines NESHAP & NSPS	95/10	Sims Roy	(919)541-5263
Consolidated Federal Air Rules	95/25	Richard Colyer	(919)541-5265
Cyanide Chemical Manufacturing	93/57	Phil Mulrine	(919)541-5289
Dry Cleaning MACT Standard	85/06B	George Smith	(919)541-1549
Electric Utility Air Toxics Study	91/41	William Maxwell	(919)541-5430
Ferroalloy Industry MACT Standard	91/45	Conrad Chin	(919)541-1512
Flexible Polyurethane Foam Fabrication Oper MACT	96/10	David Svendsgaard	(919)541-2380
Flexible Polyurethane Foam Production	93/49	David Svendsgaard	(919)541-2380
Hazardous Organic NESHAP (litigation)	86/23	Janet Meyer	(919)541-5254
Hazardous Waste TSDF - RCRA Air Rules Phase II	84/11A	Michele Aston	(919)541-2363
Hydrogen Fluoride Production NESHAP	95/13	Richard Colyer	(919)541-5265
Industrial and Commercial Waste Incinerators	95/01	George Smith	(919)541-1549
Industrial Combustion Coordinated Rule Making	96/11	Fred Porter	(919)541-5251

Table D-1. (Continued)

	Project		
Project Title	Number	Project Lead	Phone Number
Industrial-Commercial-Institutional Boilers MACT	96/04	James Eddinger	(919)541-5426
Integrated Iron & Steel Manufacturing	93/55	Phil Mulrine	(919)541-5289
Integ. Rule for Paper, Film, & Foil Coatings	96/02	Dan Brown	(919)541-5305
Internal Combustion Engine NESHAP & NSPS	95/09	Amanda Jo Agnew	(919)541-5268
Iron and Steel Foundries MACT Standard	91/59	James Maysilles	(919)541-3265
Landfills MACT	96/09	Martha Smith	(919)541-2421
Lime Manufacturing NESHAP	95/06	Joseph Wood	(919)541-5446
MACT Generic Rule	96/25	David W. Markwordt	(919)541-0837
MACT Partnerships Program Development	94/15	Fred Dimmick	(919)541-5625
Manufacture of Tetrahydrobenzaldehyde (THBA)	93/60	John Schaefer	(919)541-0296
Medical Waste Incineration	90/17	Richard Copland	(919)541-5265
Mineral Wool Production MACT Standard	92/14	Mary Johnson	(919)541-5025
Miscellaneous Cellulose Categories MACT	96/08	Elaine Manning	(919)541-5499
Miscellaneous Organic NESHAP (MON)	95/08	Randy McDonald	(919)541-5402
Municipal Landfills NSPS and 111(d)	87/28	Martha Smith	(919)541-2421
Municipal Waste Combustion Standard II & III	91/05	Walter Stevenson	(919)541-5264
NESHAP for Ethylene Processes	96/18	Warren Johnson	(919)541-5124
NESHAP for the Rubber Tire Manufacturing Industry	96/17	Anthony Wayne	(919)541-5439
Nylon 6 Production	93/52	Mark Morris	(919)541-5416
Off-Site Waste and Recovery Operations MACT	91/31	Michele Aston	(919)541-2363
Oil & Gas Production & Gas Transmission & Storage	92/06	Martha Smith	(919)541-2421
Organic Liquids (non-gasoline) Distribution MACT	96/05	Michele Aston	(919)541-2363
Other Solid Waste Incinerators	93/07	George Smith	(919)541-1549
Petroleum Refinery MACT Standard	90/19	James Durham	(919)541-5672

Table D-1. (Continued)

	Project			
Project Title	Number	Project Lead	Phone Number	
Petro. Refineries NESHAP: FCC Units, Reformers	95/02	Bob Lucas	(919)541-0884	
Pharmaceuticals Production MACT	93/50	Randy McDonald	(919)541-5402	
Phosphoric Acid/Phosphate Fertilizers Manuf.	93/53	David Painter	(919)541-5515	
Plywood & Particle Board Manufacturing	95/11	Stephen Shedd	(919)541-5397	
Polycarbonates Production	93/63	Mark Morris	(919)541-5416	
Polyether Polyols Production	93/62	David Svendsgaard	(919)541-2380	
Polymers and Resins I MACT Standard	90/26	Robert Rosensteel	(919)541-5608	
Polymers and Resins II MACT Standard	84/01	Randy McDonald	(919)541-5402	
Polymers and Resins III MACT	91/54	John Schaefer	(919)541-0296	
Polymers and Resins IV MACT Standard	92/12	Robert Rosensteel	(919)541-5608	
Portland Cement MACT Standard	91/44	Joseph Wood	(919)541-5446	
Primary Aluminum MACT Standard	91/43	Steve Fruh	(919)541-2837	
Primary Copper Smelting MACT Standards	91/61	Eugene Crumpler	(919)541-0881	
Primary Lead Smelting	94/11	Kevin Cavender	(919)541-2364	
Primary Magnesium Refining NESHAP	96/12	Iliam Rosario	(919)541-5308	
Printing/Publishing Industry MACT Standard	91/42	Dave Salman	(919)541-0859	
Production of Agricultural Chemicals	93/59	Lalit Banker	(919)541-5420	
Publicly Owned Treatment Works (POTW) NESHAP	91/30	Bob Lucas	(919)541-0884	
Pulp and Paper Combustion MACT (MICG)	91/38	Jeffrey Telander	(919)541-5427	
Pulp and Paper NESHAP CHEM. MILLS NON-COMB (WCPG)	86/15A	Penny Lassiter	(919)541-5396	
Pulp & Paper NESHAP Non-chem Mills (WCPG)	86/15B	Elaine Manning	(919)541-5499	
Reinforced Plastic Composites Production	93/58	Madeleine Strum	(919)541-2383	
Remediation Activities MACT	96/06	Bob Lucas	(919)541-0884	
Secondary Aluminum MACT Standard	91/46	Juan Santiago	(919)541-1084	
Semichemical Pulp and Paper	94/04	Jeffrey Telander	(919)541-5427	
Semiconductor Manufacturing MACT	95/03	David W. Markwordt	(919)541-0837	
Sewage Sludge Incineration NESHAP	96/14	Eugene Crumpler	(919)541-0881	

Table D-1. (Continued)

Project Title	Project Number	Project Lead	Phone Number
Ship Building NESHAP	91/53B	Mohamed Serageldin	(919)541-2379
Spandex Manufacturing MACT	96/07	Mary Tom Kissell	(919)541-4516
Stage I Gasoline Marketing MACT Standard	77/05A	Stephen Shedd	(919)541-5397
Steel Pickling - HCl Process MACT Standard	91/08B	James Maysilles	(919)541-3265
Vegetable Oil Production NESHAP	95/30	James Durham	(919)541-5672
Wood Furniture MACT Standard	91/22	Paul Almodovar	(919)541-0283
Wood Treatment MACT Standard	91/62	Eugene Crumpler	(919)541-0881
Wool Fiberglass Manufacturing MACT	91/47	William Neuffer	(919)541-5435

APPENDIX E

NOTICE OF APPLICABILITY

Source NAME Source Address
Dear:
This notice is provided to the (implementing Agency) in response to the publication of the following (state/federal) standards:
40 CFR 40, Part (60, 61, 63, etc.), Subpart (A, NO, etc.) or
(State) Title/Code (129, 2D.1101, etc.), Chapter
Please send me an initial notice of applicability form
I have reviewed the applicability of this standard and have determined that this facility is not subject. This determination is based on
All calculations required by the standard are attached. If no calculations or documentation are required, this data will be maintained and made available upon request by the (implementing agency). If additional information is needed, please contact me or, of my staff, at () XXX-XXXX, ext. XXXX.
Responsible Official Title
Date



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION 2200 CHURCHILL ROAD

P.O. BOX 19506

SPRINGFIELD, ILLINOIS 62794-9506

	FOR AGENCY USE ONLY		
NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: COMMERCIAL ETHYLENE OXIDE STERILIZERS AND	FACILITY ID #:		
FUMIGATION OPERATIONS	DATE:		
INITIAL NOTIFICATION REPORT			

	INITI	AL NOT	IFICA	TION REPORT		
FORM	1 MUST	BE SUB	MITTI	ED BY APRIL 5, 1995		
1.	Name of	r type the of Owner, g Address	Operat	ng for <u>each</u> ethylene oxide (EO or:) sterilizer or fumigation ope	eration at your facility.
	City:	5 / Idaics	•	State:		Zip Code:
		Physical Location (If Different Than Mailing Address) Street Address:				
	City:			State:		Zip Code:
	Contac	ontact Person:			Phone Number: ()
2.	Check	Check the box below if your facility:				
		 a.				
			•	uses a beehive fumigator. is a research or laboratory f provides medical services t office).	acility. o humans or animals (eg. ho	ospitals, clinics, doctors
		c.		uses EO in sterilization or f	umigation operations.	
				or b, complete the signiture sector of this page. If you checked be		
3.	Provide	e the follo	wing fo	or the EO sterilizer or fumigation	n operation:	
	a.	a. Method of operation (check all operations		eration (check all operations fac-	ility uses):	
		I) ii) iii)		Sterilization Chamber Vent Aeration Room Vent Chamber Exhaust Vent	t	
	b.	b. Intended control methods to achieve compliance (check all controls that apply):				
	I)		;	acid-water scrubber		

	ii) iii)		catalytic oxidizer thermal oxidizer		
4 D	iv)	-11	other (describe):		
4. P	rovide the	following da	ites for each EO sterilizer or fumigato	or (if applicable):	
a	. Da	te when con	struction or reconstruction commence	ed (mm/dd/yy):	
b	. Ch	eck the appl	icable date of initial startup (Note: th	ne compliance date):	
		Initial star	tup occurred on or before 12/8/97	<u>Co</u>	ompliance Date 12/8/97
		Initial star	tup occurred after 12/8/97	Compliance date = initial s	startup date
5.	This fac	cility is a(n):			
	i) ii)		najor source (Using one or more tons rea source (not major)	of EO)	
6.	EO usa	ge over the	preceding 12 months (Check one box	4)	
	I) ii) iii)	S	ource uses less than one ton/year ² ource uses one ton/year or more but le ource uses 10 tons/year or more	ess than ten tons/year	
			ess than 1 ton of ethylene oxide are n keeping requirements of 40 CFR Part		dards in 40 CFR Par
		E INFORMA NOWLEDO	ATION CONTAINED IN THIS REPO GE.	ORT TO BE ACCURATE A	ND TRUE TO THE
Signa	ture		Date		
Print o	or type the i	name and tit	le of the Responsible Official for this	facility:	
Name	:		Title		
	A Respo	onsible Offi	cial can be:		
	Oi		vice president, secretary, or treasurer orized representative that is responsible facility,		

- A principal executive officer if the facility is owned by the Federal, State, City, or County government, ranking military officer if the facility is located at a military base, or
- A general partner of a partnership that owns the facility.

7.

APPENDIX F

The American Business Disc. 1995 Edition (c)

This information may not be sold or otherwise provided to any party other than the Licensee. Data has been seeded to detect unauthorized use. Company Name: EMPIRE COATING INC Telephone: (716) 589-6842 Address: 215 WEST AVE City: ALBION State: NY ZIP: 14411 Company Name: RAYCO OF SCHENETADY INC Telephone: (518) 843-8316 Address: 4 SAM STRATTON RD City: AMSTERDAM State: NY ZIP: 12010 Company Name: O'DONNELL METAL MAINTENANCE Telephone: (518) 943-4878 Address: 249 TRAVIS DR. City: ATHENS State: NY ZIP: 12015 Company Name: RECORDS RESERVE COPR Telephone: (716) 344-2600 Address: 56 HARVESTER AVE City: BATAVIA State: NY ZIP: 14020 Company Name: US CHROME COPR OF NEW YORK Telephone: (716) 343-7077 Address: 31 SWAN STREET City: BATAVIA ZIP: 14020 State: NY Company Name: A & M MFG CO Telephone: (56) 242-0918 Address: 275 FELDMEN CT City: BAY SHORE State: NY ZIP: 11706 Company Name: TEK DEBURR INC Telephone: (516) 667-7007 Address: 26 CLEVELAND AVE City: BAY SHORE State: NY ZIP: 11706 Company Name: INDUSTRIAL ELECTROPLATERS INC Telephone: (607) 723-7991 Address: 172 STATE ST City: BINGHAMTON State: NY ZIP: 13901 Company Name: TRIPLE CITIES METAL FINISHING Telephone: (607) 722-3431 Address: 4 NOWLAN RD City: BINGHAMTON ZIP: 13901 State: NY Company Name: WILSON ELECTROPLATERS Telephone: (607) 770-4500 Address: 6 EMMA ST City: BINGHAMTON State: NY ZIP: 13905 Company Name: LIBERTY INDUSTRIAL FINISHING Telephone: (516) 273-4488 Address: 550 SUFFOLK AVE City: BRENTWOOD State: NY ZIP: 11717 Company Name: ACE PLATING WORKS INC Telephone: (718) 665-6500 Address: 800 E 136TH ST City: BRONX State: NY ZIP: 10454 ABI offers many other business information services, including mailing lists, directories, on-line access, and Info access. For more information, refer to the "Other Srevices" menu or contact us at (402) 593-4523

The American Business Disc. 1995 Edition (c) (Continued)

This information may not be sold or otherwise provided to any party other than the Licensee. Data has been seeded to detect unauthorized use.

Company Name: EMPIRE COATING INC

Address: 215 WEST AVE

City: ALBION

Employees: 0010

Sales: \$1 - \$2.5 Million

Type of Location: Not available

State: NY Credit Rating: Good

ZIP: 14411

Telephone: (716) 589-6842

C Line of Business Ad Year 71-02 METAL FINISHERS A 1989

APPENDIX G

(e.g., from Wisconsin)

AFSCME, AFL-CIO, Wisconsin Legislative Council

ASFSCME County and Municipal Employees

Administrators and Supervisors Council

Alliance for Animals

Allied Construction Employers Association

American Auto Association of Wisconsin

American Automobile Manufacturer Association

American Camping Association, Wisconsin Section

American Electroplaters & Surface Finishers

American Furniture Manufacturer Association (AFMA)

American Institute Real Estate Appraisal

American Institute of Architects (Wisconsin Society)

American Lung Association of Wisconsin

American Product and Inventory Control Society

American Trucking Association

Animal Protective League Inc.

Associated Builders & Contractors of Wisconsin

Associated General Contractors of Greater Milwaukee

Associated Milk Producers, Inc.

Associated Recyclers of Wisconsin

Association of Consulting Foresters

Auto Dealers Association of Metropolitan Milwaukee

Automotive Service Association of Wisconsin

Badger State Car Wash Association

Bay View Business Association

Bowling Proprietors Association of Wisconsin

Building Owners and Managers Association of Milwaukee

Business and Industry Improvement Council

Chemical Coaters Association

Chicago Lung Association

Citizen's Natural Res. Assn. of Wisconsin, Inc.

Citizen's Commission for Clean Air

Citizens for a Better Environment

Civil Air Patrol, Wisconsin Wing

Clean Water Action Council of Northeast Wisconsin

Coalition of Wisconsin Aging Groups

Combined Health Appeal of Wisconsin

Common Cause In Wisconsin

(e.g., from Wisconsin)

Concerned Auto Recylers of Wisconsin

Conference of Retail Associations

Construction Industry Manufacturers Association

Dairy Council of Wisconsin, Inc.

Environment Wisconsin Inc.

Farm Health & Safety Council of Wisconsin

Federal Reserve Bank of Chicago, Research Department

Forest History Association of Wisconsin

Forest Industry Safety and Training Alliance

Governor's Council On Tourism

Greater Milwaukee Florists Association

Greater Milwaukee Toxics Minimization Task Force

Hispanic Chamber of Commerce

Independent Community Bankers Association of Wisconsin

Independent Contract Lobbyists

Independent Insurance Agents of Wisconsin

Industrial Perforators Association

Industrial Recyclers of Wisconsin

Industry Relations Research Association

Institute Real Estate Management

International Dairy-Deli Bakery Association

Joint Organization for Better Sewer

Kitchen Cabinet Manufacturers Association

Lake Michigan Air Directors Consortium (LADCO)

Lake Michigan Federation

Lakes States Women In Timber

League of Wisconsin Municipalities

League of Women Voters Wisconsin Inc.

Lutherans for Life of Wisconsin Inc.

MRA - The Management Association

Madison Advertising Federation

Manufacturers of Emission Controls Association

Master Builders Association of Wisconsin

Mechanical Contractors Association of Wisconsin

Metro Milwaukee Association of Commerce

Midwest Equipment Dealers Association

Midwest Food Processors Association

Midwest Hardware Association

(e.g., from Wisconsin)

Milwaukee County Labor Council

Municipal Electric Utilities Wisconsin

Milwaukee Indian Health Board, Community Health Centers

Municipal Environmental Association of Wisconsin

NAACP

NAACP-Milwaukee Chapter

National Agri-Business Association

National Association of Social Workers

National Cheese Exchange, Inc.

National Electrical Contractors Wisconsin

National Federation of Independent Business

National Paint & Coating Association

National Telemedia Council

Petroleum Marketers Association of Wisconsin

Planning Council for Health and Human Services

National Association of Wisconsin Theatre Owners

Post-secondary Agriculture Students

Printing Industries of Wisconsin

Professional Fire Fighters of Wisconsin

Professional Insurance Agents of Wisconsin

Protect Animal Life Inc.

Public Enterprise Committee

Public Relation Society of America

Public Safety Communication Officers

Sheet Metal & Air Conditioning Contractor Association

Soap and Detergent Association

Society of Automotive Historians, Wisconsin Chapter

Society of Real Estate Appraisers

Soil Science of America

Soil and Water Conservation Society

Southeast Wisconsin Regional Planning Commission (SEWRPC)

State Bar of Wisconsin

State Engineering Association

State Medical Society of Wisconsin

Tavern League of Wisconsin

Timber Producers Assn. of Michigan & Wisconsin

Trees for Tomorrow, Inc.

United Professional Quality Health Care

(e.g., from Wisconsin)

United States Small Business Association

United Transportation Union-Wisconsin Legislative Board

Urban League

WATVA

WI Assn. of Plumbing-Heating-Cooling Contractors, Inc.

WI State Employees Union, AFSCME Council 24, AFL-CIO

WISCO

Washington County Land Conservation Council

Wilderness Watch Inc.

Wisconsin AFL-CIO

Wisconsin AFL-CIO Womens Committee

Wisconsin Academy of Sciences, Arts & Letters

Wisconsin Accountants Association

Wisconsin Agri-Business Council, Inc.

Wisconsin Agri-Service Assn., Inc.

Wisconsin Agriculture Association

Wisconsin Air Forces Association

Wisconsin Ambulance Service Association

Wisconsin American Public Works Association

Wisconsin Amusement & Music Operators

Wisconsin Apple Growers Association

Wisconsin Appraisers Coalition

Wisconsin Arborist Association Inc.

Wisconsin Asphalt Pavement Association

Wisconsin Assoc. for Health, Phy. Ed., Recreation & Dance

Wisconsin Association Future Farmers America

Wisconsin Association Homes and Services for Aging

Wisconsin Association Life Underwriters

Wisconsin Association for Adult & Continuing Education

Wisconsin Association for Environmental Education

Wisconsin Association for Middle Level Education

Wisconsin Association for Supervision and Curriculum Dev.

Wisconsin Association of Campground Owners (WACO)

Wisconsin Association of Fairs

Wisconsin Association of Incinerator Operators

Wisconsin Association of Independent College & Universities

Wisconsin Association of Lakes Inc.

Wisconsin Association of Manufacturers Agents

(e.g., from Wisconsin)

Wisconsin Association of Milk & Food Sanitarians

Wisconsin Association of Taxicab Owners

Wisconsin Association of Textile Services

Wisconsin Association of Vocational Agricultural Instructors

Wisconsin Auto Collision Technical Association

Wisconsin Auto Merchandising Council

Wisconsin Automatic Merchandising Council

Wisconsin Automobile & Truck Dealers Association

Wisconsin Automobile Clubs in Association

Wisconsin Automotive Parts Association

Wisconsin Automotive Trades Association

Wisconsin Bakers Association

Wisconsin Bankers Association

Wisconsin Beef Council, Inc.

Wisconsin Berry Growers Association

Wisconsin Beverage Licensees Association

Wisconsin Biotechnology Association

Wisconsin Bowhunters Association Inc.

Wisconsin Broadcasters Association

Wisconsin Builders Association

Wisconsin Business Education Association

Wisconsin Business Womens Coalition

Wisconsin Cable Communications Association

Wisconsin Cast Metals Association

Wisconsin Cattlemens Association

Wisconsin Cattle women Association

Wisconsin Chapter American Fisheries Society

Wisconsin Chapter Association of General Contractors

Wisconsin Chapter Nature Conservancy

Wisconsin Chapter Tax Executives Institute

Wisconsin Chapter Wildlife Society

Wisconsin Cheese Makers Association

Wisconsin Chiropractic Association

Wisconsin Christmas Tree Producers Association

Wisconsin City Management Association

Wisconsin Coin Laundry Association

Wisconsin Communities & Economic Development

Wisconsin Community Education Association

(e.g., from Wisconsin)

Wisconsin Comptel

Wisconsin Concrete Masonry Association

Wisconsin Concrete and Pavement Association

Wisconsin Conference Journeymen Painters

Wisconsin Conference of Churches

Wisconsin Consumer Packaging Council

Wisconsin Contemporary Gift Association

Wisconsin Coop Tobacco Growers Association

Wisconsin Council for the Social Studies

Wisconsin Council of Safety

Wisconsin Counties Association

Wisconsin Counties Mineral Resources Association

Wisconsin Counties Utility Tax Association

Wisconsin County Agents Association

Wisconsin County Executives and Administrators

Wisconsin County Forests Association

Wisconsin County Planning Directors

Wisconsin County Solid Waste Managers Association

Wisconsin Credit Union League

Wisconsin Dairy Products Association Inc.

Wisconsin Dairy Technology Society

Wisconsin Dental Association, Inc.

Wisconsin Dental Laboratory Association

Wisconsin Dietetic Association

Wisconsin Eagle Forum

Wisconsin Economic Development Association

Wisconsin Economics Education Council

Wisconsin Electric Cooperative Association

Wisconsin Electronic Sales and Service Association

Wisconsin Environmental Health Association

Wisconsin Environmental Laboratory Association

Wisconsin Equipment Lessors Association

Wisconsin Fabricare Institute

Wisconsin Farm Bureau Federation Coop

Wisconsin Farm Bureau Service Cooperative

Wisconsin Farm Equipment Association

Wisconsin Federated Humane Societies

Wisconsin Federation of Cooperatives

(e.g., from Wisconsin)

Wisconsin Fertilizer & Chemical Association

Wisconsin Forest Fire Fighters Association

Wisconsin Forest Productivity Council

Wisconsin Foundation for Independent Colleges

Wisconsin Funeral Directors Association

Wisconsin Grain Dealers Association

Wisconsin Greyhound Owners Association

Wisconsin Grocers Association

Wisconsin Grounds Management Association

Wisconsin Groundwater Association

Wisconsin HMO Association

Wisconsin Hatcheries Association

Wisconsin Hazardous Material Responders

Wisconsin Health Care Association

Wisconsin Health Education Center

Wisconsin Health Information Management Association

Wisconsin Health Underwriters Association

Wisconsin Highway Users Conference

Wisconsin Hospital Association

Wisconsin Humane Society

Wisconsin Independent Businesses

Wisconsin Independent Merchants & Manufacturers Association

Wisconsin Independent Tire Dealers & Retread

Wisconsin Information and Referral Providers

Wisconsin Innkeepers Association

Wisconsin Installment Bankers

Wisconsin Institute of CPAs

Wisconsin Institute of Scrap Recycling Industries

Wisconsin Insulation Contractors Association

Wisconsin Insurance Alliance

Wisconsin Jewelers Association

Wisconsin Junior Limousine Association

Wisconsin Land Conservation Association

Wisconsin Land Title Association, Inc.

Wisconsin League of Financial Institutions, Ltd.

Wisconsin Leather Industries Association

Wisconsin Licensees Association

Wisconsin Limousine Association

(e.g., from Wisconsin)

Wisconsin Liquid Waste Carriers Association

Wisconsin Liquor Wholesalers Independent

Wisconsin Locally Owned Telephone

Wisconsin Manufactured Housing Association

Wisconsin Marketing and Management Association

Wisconsin Master Builders Association

Wisconsin Meat Processors Association

Wisconsin Medical Group Management Association

Wisconsin Medical Record Association

Wisconsin Milk Haulers Association

Wisconsin Milk Marketing Board

Wisconsin Modular Housing Industry

Wisconsin Mortgage Bankers Association

Wisconsin Motorcycle Dealers Association

Wisconsin Movers Association Inc.

Wisconsin National Farmers Organization

Wisconsin Natural Food Associates, Inc.

Wisconsin Newspaper Association

Wisconsin Nurserymen's Association

Wisconsin Organic Growers Association

Wisconsin Paint & Coating Association

Wisconsin Painting & Decor Contractors

Wisconsin Paper Advertising Association

Wisconsin Paper Council

Wisconsin Park and Recreation Association

Wisconsin Petroleum Council

Wisconsin Pharmacists Association

Wisconsin Potato and Vegetable Growers Assc., Inc.

Wisconsin Precast Concrete Association

Wisconsin Primary Health Care Association

Wisconsin Professional Employee Council

Wisconsin Professional Florists Association

Wisconsin Psychiatric Association

Wisconsin Public Health Association Inc.

Wisconsin Public Health Association, Inc.

Wisconsin Pump & Well Suppliers

Wisconsin Railroad Committee

Wisconsin Ready Mixed Concrete Association

(e.g., from Wisconsin)

Wisconsin Real Property Listers Association

Wisconsin Realtors Association

Wisconsin Recreational Independent Inc.

Wisconsin Restaurant Association

Wisconsin Retail Bankers Association

Wisconsin Retail Hardware Association

Wisconsin Retail Lumbermen's Association, Inc

Wisconsin Road Builders Association

Wisconsin Road Builders Association

Wisconsin Rural Development Center

Wisconsin Social Service Association

Wisconsin Society for Clinical Social Work

Wisconsin Society for Ornithology Inc.

Wisconsin Society of Biological Science

Wisconsin Society of Land Surveyors

Wisconsin Society of Mechanical Engineers

Wisconsin Society of Orthodontists

Wisconsin Society of Professional Engineers

Wisconsin Society of Science Teachers

Wisconsin Soft Drink Association

Wisconsin Software Publishers Association

Wisconsin Sporting Goods Association

Wisconsin State Brewers Association

Wisconsin State Council of Carpenters

Wisconsin State Cranberry Growers

Wisconsin State Firefighters Association

Wisconsin State Grange

Wisconsin State Health Council

Wisconsin State Telephone Association

Wisconsin Tavern Hosts

Wisconsin Teachers Credit Union

Wisconsin Teamsters Joint Council #39

Wisconsin Technology Education Association

Wisconsin Tourism Federation

Wisconsin Towing Association

Wisconsin Town Mutual Insurance Co. Association

Wisconsin Town Mutual Insurance Company Assn.

Wisconsin Towns Association

(e.g., from Wisconsin)

Wisconsin Towns Association

Wisconsin Transportation Development Association

Wisconsin Trappers Association Inc.

Wisconsin Tree Farm Committee

Wisconsin Truck Stop Operators Association

Wisconsin Trustees Association

Wisconsin Underground Contractors Association

Wisconsin Urban Transit Association

Wisconsin Utilities Association

Wisconsin Veterinarian Medical Association

Wisconsin Warehousemans Association

Wisconsin Water Quality Association

Wisconsin Well Water Association

Wisconsin Wholesale Beer Dist Association, Inc.

Wisconsin Wildlife Federation Inc.

Wisconsin Wine and Spirit Institute

Wisconsin Wineries Association

Wisconsin Women for Agriculture

Wisconsin Woodland Owners Association Inc.

Wisconsin and Upper Michigan Florists Association

Wisconsin-Minnesota Canned Vegetable Council

Wisconsin Apartment Association

Women In Communications Inc.

Womens International Bowling Congress

APPENDIX H

Example Inspection Checklists

APPENDIX H1

Multimedia Inspection Checklist for Dry Cleaning Facilities

Multimedia Inspection Checklist For Dry Cleaning Facilities

(Taken directly from "Multimedia Inspection Guidance for Dry Cleaning Facilities" OECA/EPA July 30, 1996.)

TABLE OF CONTENTS

I.	GEN	NERAL FACILITY AND MANAGEMENT INFORMATION	1
	A. B.	General Facility Information	
II.	DRY	CLEANING PROCESS AREA	3
	A.	Dry Cleaning General Equipment Information	3
	B.	Refrigerated Condensers Performance Monitoring	
	C.	Carbon Adsorber Performance Monitoring (complete if carbon adsorbers are	
		used)	4
	D.	Leak Detection	
	E.	Miscellaneous Operation and Maintenance	
		1	
III.	PER	C AND PERC WASTE HANDLING AREAS	6
	A.	Perc Storage and Dispensing	6
	B.	Satellite Waste Accumulation Area	
	C.	Hazardous Waste Storage Area	
	D.	Hazardous Wastes Shipping	
	E.	Wastewater Management	
		——————————————————————————————————————	Ŭ
IV.	REC	CORDS AND FILES INSPECTION	9
	A.	Reporting	9
	В.	Recordkeeping	
V.	ADI	DITIONAL COMMENTS	11

MULTIMEDIA INSPECTION CHECKLIST FOR DRY CLEANING FACILITIES

I. GENERAL FACILITY AND MANAGEMENT INFORMATION

A.	General Facility Information				
1.	Date of Inspection				
2.	Facility Name:				
3.	Facility Telephone Number:				
4.	Facility Address (physical location):				
-	N. 11 (10 1100)				
5.	Mailing Address (if different):				
6.	Facility Owner Contact Information (Name and phone):				
	1 /				
7.	Facility Operator/Manager (if differ From owner (Name and phone):	ent			
	Trom o mer (r tame and phone).				
8.	Inspector(s):				
	<u>Name</u>	Title/Affiliatio	<u>n</u>	Phone Number	
	(1)				
	(2)				
	(3)				
9.	Original establishment date of facili	ty:			

10.	Establishment date of current ownership:
11.	Establishment date at current location:
12.	Is a new annual perc consumption level calculated on the first of each month reflecting usage for the past 12 months? Yes [] No []
	Record most current annual perc consumption: Gallons: (month, year) to (month, year) Date calculated:
13.	Size categorization of facility under federal air emissions regulations (based on information in Question 12):
	[] Small area source[] Large area source[] Major source
14.	Size categorization of facility under federal hazardous waste regulations:
	[] CESQG [] SQG [] LQG
15.	Does the facility have an EPA ID # as a generator of hazardous wastes?
	Yes [] No [] EPA ID #:
16.	Does the facility discharge wastewater into a municipal sewer? Yes [] No [] Name of POTW: Permit # (if applicable):
	If not, please explain.
В.	Facility Management
17.	Is the dry cleaner a member of a trade association? Yes [] No []
	If so, name of association:
	If not, ensure that the dry cleaner is aware of the role of trade organizations in providing compliance assistance. Distribute national or local trade association literature as appropriate to serve as initial contact points.
18.	What types of training activities are conducted at the facility (include safety, emergency procedures, and pollution prevention programs)?

19.	Has a pollution prevention or waste minimization plan been developed by the facility? Yes [] No []							
	If so, d	escribe:					res _[]	NO[]
20.	Has th activiti	-	aluated which	ch wastes are proba	ble candidates for red	uctions through	n pollution pro Yes []	
	If so, list the wastes and describe pollution prevention activities currently being undertaken.							
21.	Is the f	acility owner	familiar wit	th multiprocess wet	cleaning?		Yes []	No []
	Has the facility considered experimenting with multiprocess wet cleaning? Yes [] No []							
II.	DRY (CLEANING	PROCESS	AREA				
A.	Dry C	leaning Gene	eral Equipn	nent Information				
22.	Supply	the following	g informatio	n about the dry clea	ning machines in use a	t the facility:		
#	Typei	Date Installed	New or Existing	Manufacturer and model number	Perc filtration system(s) ⁱⁱ	Perc vapor recovery system ⁱⁱⁱ	Installation perc vap recovery sy	or
1								
3								
ⁱ Dry- ⁱⁱ List	all types	or Transfer (' of filters used condenser (RC		dsorber (CA)				
23.	New tr	ansfer machii	nes are no lo	onger allowed. Is the	e facility in compliance	?	Yes []	No[]
24.		•		e used, has the facili purchase of a dry-to	ty performed a thorougo-dry machine?	gh cost analysis	to determine Yes []	
25.		g transfer ma ility in compl		ajor sources must be	e surrounded in a room	enclosure by S	eptember 23, Yes []	
26.	Were any carbon adsorbers that are used as perc vapor recovery systems for drying process vapors installed before September 22, 1993? Yes [] No []							
27.								

В.	Refrigerated	Condensers	Performance	Monitoring
----	--------------	-------------------	--------------------	------------

28.	Are temperature sensors for refrigerated condensers installed for each machine in accordance	with manu	facturers'
	specifications?	Yes []	No []

29. Are temperature sensors for all machines designed to measure temperatures from $32^{\circ}F$ to $120^{\circ}F$ to an accuracy of $\pm 2^{\circ}F$?

Yes [] No []

30. Record temperature sensor readings if available:

Temperature Sensor	Machine #1	Machine #2	Machine #3	Criteria for compliance
(a) Dryer airstream at condenser outlet (°F)				Less than or equal to 45°F
(b) Washer airstream at condenser inlet (°F)				none
(c) Washer airstream at condenser outlet (°F)				none
(d) Washer airstream net temp. drop {(b) - (c)} (°F)				At least 20°F
(e) In compliance? (Y/N)				

C. Carbon Adsorber Performance Monitoring (complete if carbon adsorbers are used)

31.	Are sampling ports for carbon adsorbers properly located in accordance with federal regulation	s (8 d	uct o	diameters
	downstream and 2 duct diameters upstream of any flow disturbance)?	Yes	[]	No []

32.	Are they	kept closed	when	not in	use?

Yes	[]	No	[]	ı
1 00		110		

33. Indicate the established period desorption schedule for each machine (as necessary, as indicated by tests, but at least weekly). Note the date when each adsorber was last desorbed and measure the perc concentration in the exhaust with a colorimetric detector while the drying cycle is on. (Note: It is important to note that the perc concentration should usually be measured at the end of a use cycle, just prior to desorption. A measurement taken at any other time only ensures that the adsorber is in compliance at that time, not necessarily for the duration of the use cycle. However, given time and logistical limitations, inspections schedules generally cannot accommodate desorption schedules for each machine.

Machine #	Indicate Periodic Desorption Schedule ⁱ	Date Last Desorbed	Measured Perc Concentration in Exhaust Airstream	Use of Carbon Adsorber (A,B, or C as indicated by table below) ⁱⁱ	Perc Concentration Limit (as indicated by table below) ⁱⁱ
1					
2.					
2					
2					
3					

ⁱIndicate schedule specifics (day of week, etc.)

Carbon adsorber is used:	Indicate with	Perc Limit (ppm)
As main perc vapor recovery system	A	100
As residual vapor recovery system (tested during aeration while the door is open)	В	100
As residual vapor recovery system (tested during aeration while the door is closed)	С	300

34.	Is the odor of perc readily detectable anywhere in the facility?	

Yes [] No []

If so, where?

Leak Detection

D.

35.	Is the leak detection progr	ram conducted weekly	or biweekly as requi	ired?	Yes []	No []
-----	-----------------------------	----------------------	----------------------	-------	---------	--------

36. Allow owner or designated representative to guide you through the facility and demonstrate procedures for the weekly/biweekly leak detection inspection for each machine. The inspection should include the items listed below. Tabulate results and record any leaks detected.

In	spection do	lone by:	
[] Sight, s	smell, and feel	
[] Monito	oring instrument (Type:)

		Signs of Leaking (Y, N, n/a)?		N, n/a)?	
#	Components:	Machine #1	Machine #2	Machine #3	Explain all "Yes" answers:
1	Hose & pipe connections, fittings, couplings, valves				
2	Door gaskets & seatings				
3	Pumps				
4	Solvent tank & containers				
5	Water separators				
6	Muck cookers				
7	Stills				
8	Exhaust dampers				
9	Diverter valves				
10	Filter gaskets and seatings				
11	Cartridge filter housings				

37.	Are seals and gaskets periodically replaced before they become brittle?	Yes []	No []
38.	What type of solvent leak detection systems are in use?		
39.	What other methods does the facility use to detect leaks? (e.g., drip pans, etc.)		
40.	In transfer machines, is the exhaust damper easily accessible?	Yes []	No []
	If not, is there a suitable outlet downstream for testing the proper closure of the exhaust dam	per?	
		Yes []	No []
E.	Miscellaneous Operation and Maintenance		
41.	Are all machines operated as per manufacturer's specifications and recommendations?	Yes []	No[]
42.	Are machine doors kept closed except when transferring clothes?	Yes []	No []
43.	Are all spent cartridges drained at least 24 hours before disposal?	Yes []	No []
	Alternatively, are they steam stripped before disposal?	Yes []	No[]
III.	PERC AND PERC WASTE HANDLING AREAS		
III. A.	PERC AND PERC WASTE HANDLING AREAS Perc Storage and Dispensing		
		Yes []	No[]
Α.	Perc Storage and Dispensing		No[] No[]
Α.	Perc Storage and Dispensing Is perc stored on-site?		
A. 44.	Perc Storage and Dispensing Is perc stored on-site? If so, is all perc stored in tightly sealed containers and free from leakage?		
A. 44.	Perc Storage and Dispensing Is perc stored on-site? If so, is all perc stored in tightly sealed containers and free from leakage? How frequently is perc delivery available?		
A. 44. 45. 46.	Perc Storage and Dispensing Is perc stored on-site? If so, is all perc stored in tightly sealed containers and free from leakage? How frequently is perc delivery available? How is perc delivered to the dry cleaning machines?	Yes []	
A. 44. 45. 46. B.	Perc Storage and Dispensing Is perc stored on-site? If so, is all perc stored in tightly sealed containers and free from leakage? How frequently is perc delivery available? How is perc delivered to the dry cleaning machines? Satellite Waste Accumulation Area	Yes []	No[]
A.44.45.46.B.47.	Perc Storage and Dispensing Is perc stored on-site? If so, is all perc stored in tightly sealed containers and free from leakage? How frequently is perc delivery available? How is perc delivered to the dry cleaning machines? Satellite Waste Accumulation Area Do satellite waste accumulation areas contain less than 55 gallons of accumulating wastes?	Yes []	No[] No[] No[]

C.	Hazardous Waste Storage Area			
51.	Are all containers tightly closed and free from leakage or deterioration?	Yes []	No []
52.	Are all containers clearly marked as hazardous waste?	Yes []	No []
53.	Do all containers bear a date representing the day the container was filled and designated fo	or disposal/tr Yes []		
54.	Are all the dates on the containers in compliance with on-site waste storage time limits for ger wastes? (No limit for CESQGs, 180 days for SQGs, 270 days for SQGs that must transpmiles.)		astes 20	00
	Note the date of oldest container:			
	If the time limit is exceeded, does the facility have the required EPA permit for storage faci	lities? Yes []	No []
55.	The facility must not be storing quantities of waste in excess of the quantity storage limits. D facility is in compliance as follows:	etermine wh	nether tl	he
	Determine the total weight of all perc wastes in the storage area.			
	Each 15-gallon container can hold about 120 lbs (55 kg) of perc waste.			
	Each 55-gallon container can hold about 440 lbs (200 kg) of perc waste. Maximum quantity limits are as follows: CESQG—2,200 lbs; SQG—13,200 lbs.			
	For 15-gallon containers:			
	× 120 lbs/container = lbs in storage # of full conta	ainers:		
	For 55-gallon containers:			
	× 440 lbs/container = lbs in storage # of full contain	ners		
	On-site storage quantity limit (lbs):			
	Is the facility in compliance?	Yes []	No []
D.	Hazardous Wastes Shipping			
56.	Does the facility ship hazardous wastes off-site?	Yes []	No []
57.	Does the facility track the wastes with a manifest form?	Yes []	No []
58.	Are all containers labeled with the 4-inch DOT POISON label?	Yes []	No []

59.	Are all containers marked with the proper DOT sh	nipping name and number?		Yes [] No	o[]
E.	Wastewater Management					
60.	Does the facility discharge industrial wastewater i	nto the following?				
	Municipal sewer			Yes [] No	o[]
	On-site disposal system which meets the definition	n of injection well		Yes [] No	o[]
	Holding tank			Yes [] No	o[]
For a	discharges to municipal sewers:					
61.	Does the facility have a current wastewater permit	?		Yes [] No	o[]
	If not, has the facility applied for a new permit?			Yes [] No	o[]
62.	What parameters are limited and/or monitored in	the facility's permit?				
	<u>Parameter</u> <u>Limit</u>		Monitoring Fre	equency		
	(1)			_		
	(2)			_		
	(3)			_		
63.	Is monitoring conducted as required by the permit	(with respect to sampling	location, frequen	cy)? Yes [] No	o[]
64.	Does the facility have a sampling point available we the POTW?	hich is representative of its	s process wastew	aters dis Yes [_	
65.	Is the effluent currently in compliance with the lin permits?	nitations established in the	Yes[] N	No[]		
	If not, describe all violations found, including pasamples or actions.	arameter limit exceeded, d	ate of violation,	and any	follo	w-up

R	Recordkeening		
	Note to inspector: Ask to see copies of the initial report and compliance report.		
	Date filed:	Yes []	No[]
74.	Did the facility file a compliance report (within 30 days of startup or 30 days after NESHA effect)?		
	Date filed:		
73.	Did the facility file an initial report with EPA (by June 18, 1994, or upon startup for new fac	rilities)? Yes []	No []
A.	Reporting		
IV.	RECORDS AND FILES INSPECTION		
72.	Does the facility have the tank pumped out regularly by a licensed waste hauler for proper, le	egal disposa Yes []	
Ford	discharges to holding tanks:		
71.	Does the facility dispose of perc wastes and/or other hazardous chemicals in the injection we	ll? Yes []	No []
70.	Does the facility have a Federal or State UIC permits?	Yes []	No []
Ford	discharges to injection wells:		
	If so, were the proper authorities notified of the release?	Yes []	No []
69.	Has the facility ever discharged 15 kg of perc to the POTW within a calendar month?	Yes []	No []
68.	If the facility discharges to a POTW, has it complied with the recordkeeping and reporting requin $40 \ \text{CFR} \ 403.12(o)$?	uirements c Yes []	
67.	Describe any wastewater treatment employed at the facility.		
	Describe the changes.		
	If so, was the permitting authority notified?	Yes []	No []
66.	Has the discharge changed significantly since the permit was issued?	Yes []	No []

75.	Are the results of temperature sensor monitoring for refrigerated condensers kept on record for operations?	or the past 5 Yes []	-	
	Do the results show that all refrigerated condensers are in compliance with performance req	uirements? Yes []	No []
76.	Are the results of colorimetric tube monitoring for carbon adsorbers kept on record for operations?	the past 5 Yes []	-	
	Has a periodic (at least weekly) desorption schedule been established and adhered to for each	h adsorber? Yes []		1
	Does monitoring of adsorbers take place during the last run prior to desorption?	Yes []		
	Do the results show that all carbon adsorbers are in compliance with performance requirement	ents? Yes []	No []
77.	Are monthly totals of perc purchase records kept on-site for the past 5 years?	Yes []	No []
78.	Are records of weekly/biweekly inspections for leaks available for each machine for the last 5 ye of facility)?	ears (or sinc Yes []		-
79.	Are any detected leaks repaired within 24 hours whenever possible?	Yes []	No []
80.	Are all needed repair parts ordered within 2 working days?	Yes []	No []
81.	Are needed repair parts installed within 5 days of receipt?	Yes []	No []
82.	Note any recurring problems:			
83.	Are copies of manifest forms maintained on-site for 3 years?	Yes []	No []
84.	Are any return copies of manifest forms (from the waste receiving facility) missing?	Yes []	No []
85.	If so, have exception reports been filed and copies maintained on-site?	Yes []	No []
	What action has been taken to determine the status of the waste shipment or notify the prop	er authoritie	es?	
86.	Are copies of the design specifications and operating manuals for each dry cleaning system control device kept on-site at the facility?	n and each (Yes []	emissio No [

87.	Has the solvent mileage been calculated for each machine?	Yes []	No []
	If so, record the results (gallons perc/1,000 lb clothes)				
	If not, does the facility owner understand how to calculate solvent mileage and how to minimization indicator?	use it Yes [

V. ADDITIONAL COMMENTS

APPENDIX H2

Inspection Checklist for Chromium Electroplating and Anodizing

Chromium Electroplating And Anodizing Inspection Checklist

Inspection Date

Facility Name			
Facility Address			
Attendees			
I. EMISSION	SOURCE TYPE* ar	nd CON	NTROL EQUIPMENT
_	small, existing hard		packed-bed scrubber (PBS)
_	other hard		composite mesh-pad (CMP)
_	decorative		fume suppressant and/no wetting agent
_	anodizing		fume suppressant (FS)
	in Attachment 1 (Tabl Electroplating and An		the "Guidebook on How to Comply With the NESHAP).

II. WORK PRACTICES

	1.	Operation and maintenance plan (O&M)
		Yes No
	2.	Records of Quarterly inspections:
		control devices
		ductwork
		monitoring equipment
	3.	Process operating time
	4.	For tanks using fume suppressant
		a. Date and time of each addition of fume suppressant
		b. For trivalent decorative purchasing records of bath compounds:
		Yes No
III.	IN	ITIAL PERFORMANCE TEST
	Ye	es No
	• 6	emptions: lecorative or anodizing with wetting agent and surface tension to a max. 45 dynes/cm lecorative that use a trivalent chromium bath
IV.	Ol	NGOING COMPLIANCE MONITORING (Table 5-3 of the Guide).
		r add-on pollution control specified in regulations (use monitoring parameters as per tial performance test):
	1.	Composite mesh-pad scrubber (check daily) pressure drop across the system Initial test Actual
	2.	Packed-bed scrubber

	(check daily) Pressure drop across system
	Initial test Actual
	(daily) Velocity pressure at system inlet (i.e. velocity of the gas stream at the inlet of the unit)
	Initial test Actual
3.	Packed-bed scrubber/composite mesh-pad system (daily) Pressure drop across the mesh-pad system
	Initial test Actual
4.	Fiber-bed mist eliminator (daily) Pressure drop across the mist eliminator
	Initial test Actual
	(daily) Pressure drop across the control device located upstream of the fiber bed that prevents plugging
	Initial test Actual
5.	Wetting Agent or combination wetting agent/foam blanket fume suppressants (@4 or 8 hours. See Attachment II, Table 5-3). Surface tension
	Initial test Actual
6.	Foam blanket-type fume suppressant (every hour for every new tank solution. If no EE, @4 hours. See Attachment II, Table 5-3) Foam blanket thickness
7.	Fume suppressant/add-on control device
	Combination of the above
Fo	r control system not specified in the regulations, EPA approved parameters:
RE	CCORDKEEPING (except decorative with trivalent bath*)
1.	Inspection records
2.	Equipment maintenance records

V.

	4.	Performance test results		
	5. Monitoring data			
	* for decorative electroplating with trivalent chromium bath submit initial notification and an initial compliance status report			
VI.	REPORTING (except for decorative with trivalent bath*)			
	1.	Initial notification		
		Yes No		
	2.	Performance test notification		
		Yes No		
	3.	Performance test data		
	4.	EER's submission		
	3	Yes No		
	*	notification and initial compliance status report		

3. Records of the occurrence, duration and cause of excess emissions

APPENDIX I

Contacts

APPENDIX I1

Regional Air Toxics Coordinators

REGIONAL AIR TOXICS CONTACTS

Janet Bowen EPA Region I (CAP)

J.F.K. Federal Building Boston, MA 02203-2211

PH: (617) 565-3595 Fax: (617) 565-4940

Umesh Dholakia EPA Region II 290 Broadway

New York, NY 10007-1866

PH: (212) 637 4023 Fax: (212) 637-3901

Mike Markowski

Alice Chow (enforcement) EPA Region III (3AT23) 841 Chestnut Building Philadelphia, PA 19107 Mike (215) 566-2063 Alice (215) 566-2144 FAX: (215) 566-2114

Lee Page

EPA Region IV (AR-4) 100 Alabama Street, SW Atlanta, GA 30303-3104 PH: (404) 562-9131 FAX: (404) 562-9095

Bruce Varner

EPA Region V (AE-17J) 77 W. Jackson Blvd. Chicago, IL 60604 PH: (312) 886-6793 FAX: (312) 353-8289

Belinda Breidenbach Charlie Garlow, OECA Belinda PH:(202) 564-7022 Charlie PH:(202) 564-1088 Belinda's FAX: (202) 564-0050 Charlie's FAX: (202) 564-0068 Robert Todd

EPA Region VI (6PD-R) 1445 Ross Avenue,Suite 700 Dallas, TX 75202-2733 PH: (214) 665-2156 Fax: (214) 665-7263

Richard Tripp EPA Region VII

726 Minnesota Avenue Kansas City, KS 66101 PH: (913) 551-7566 FAX: (913) 551-7065

Victoria Parker-Christensen Ann-Marie Patrie (AP2-A) Heather Rooney (8ENF-T) R VIII 999 18th Street, Suite 500

Denver, CO 80202-2405 VPC: (303) 312-6441 Ann Marie: (303) 312-6524 Heather: (303) 312-6971 FAX: (303) 312-6064

Heather's FAX: (303) 312-6409

Mae Wang

EPA Region IX (A-5-2) 75 Hawthorne Street San Francisco, CA 94105 PH: (415) 744-1200 FAX: (415) 744-1076

Chris Hall

EPA Region X (OAQ-107) 1200 Sixth Avenue Seattle, WA 98101 PH: (206) 553-1949 FAX: (206) 553-0404

Julie Andresen EPA/OAQPS RTP, NC 27711 PH: (919) 541-5339 FAX: (919) 541-2664

APPENDIX I2 OAQPS and OECA NSPS and NESHAP Contacts

List of OAQPS and OECA NSPS and NESHAP Contacts (11/07/96)

Regulation - Part 60	OAQPS Contact	Phone #	OC Contact	Phone #
NSPS Subpart A: General Provisions	Jim Szykman	919-541-2452	Sally Mitoff Belinda Breidenbach	(202) 564-7012 (202) 564-7022
NSPS Subpart D, Da, Db, Dc: Boilers	Rick Copland Jim Eddinger	919-541-5265 919-541-5426	Chris Oh	(202) 564-7004
NSPS Subpart E: Incinerators	Fred Porter	919-541-5251	Joyce Chandler	(202) 564-7073
NSPS Subpart Ea: Municipal Waste Combustors	Walt Stevenson	919-541-5264	Joyce Chandler	(202) 564-7073
NSPS Subpart F: Portland Cement	Joe Wood	919-541-5446	Scott Throwe	(202) 564-7013
NSPS Subpart G: Nitric Acid Plants	Bill Neuffer	919-541-5435	Jeff Kenknight	(202) 564-7033
NSPS Subpart H: Sulfuric Acid Plants		919-541-	Dawn Banks-Waller	(202) 564-7034
NSPS Subpart I: Asphalt Concrete Plants	Mary Johnson	919-541-5025	Scott Throwe	(202) 564-7013
NSPS Subpart J: Petroleum Refineries	Fred Porter Gail Lacy	919-541-5251 919-541-5261	Tom Ripp Dan Chadwick	(202) 564-7003 (202) 564-7054
NSPS Subpart K, Ka, Kb: Storage Tanks	Randy McDonald	919-541-5402	Everett Bishop	(202) 564-7032
NSPS Subpart L: Secondary Lead Smelters	Kevin Cavender	919-541-2364	Jane Engert	(202) 564-5021
NSPS Subpart M: Brass & Bronze	Eugene Crumpler	919-541-0881	Jane Engert	(202) 564-5021
NSPS Subpart N, Na: BOF	Phil Mulrine	919-541-5289	Maria Malave	(202) 564-7027

Regulation - Part 60	OAQPS Contact	Phone #	OC Contact	Phone #
NSPS Subpart O: Sewage Treatment Plants	Eugene Crumpler	919-541-0881	John Dombrowski	(202)564-7036
NSPS Subpart P: Primary Copper Smelters	Eugene Crumpler	919-541-0881	Jane Engert	(202) 564-5021
NSPS Subpart Q: Primary Zinc Smelters	Al Vervaert	919-541-5602	Jane Engert	(202) 564-5021
NSPS Subpart R: Primary Lead Smelters	Kevin Cavender	919-541-2364	Jane Engert	(202) 564-5021
NSPS Subpart S: Primary Aluminum Reduction	Steve Fruh	919-541-2837	Jane Engert	(202) 564-5021
NSPS Subpart T, U, V, W, X: Phosphate Fertilizer	David Painter	919-541-5515	Cletis Mixon Steve Howie	(202) 564-4153 (202) 564-4146
NSPS Subpart Y: Coal Preparation	Juan Santiago	919-541-1084	Chris Oh	(202) 564-7004
NSPS Subpart Z: Ferroalloy Production	Conrad Chin	919-541-1512	Jane Engert	(202) 564-5021
NSPS Subpart AA: Steel Plants, EAF	Phil Mulrine	919-541-5289	Maria Malave	(202) 564-7027
NSPS Subpart AAa: Steel Plants, EAF & AOD	Phil Mulrine	919-541-5289	Maria Malave	(202) 564-7027
NSPS Subpart BB: Kraft Pulp Mills	Jeff Telander	919-541-5427	Maria Eisemann	(202) 564-7016
NSPS Subpart CC: Glass Manufacturing	Al Vervaert	919-541-5602	Scott Throwe	(202) 564-7013

Regulation - Part 60	OAQPS Contact	Phone #	OC Contact	Phone #
NSPS Subpart DD: Grain Elevators	Jim Berry	919-541-5605	Ken Harmon	(202)564-7049
NSPS Subpart EE: Surface Coating, metal furniture	Mohammed Serageldin	919-541-2379	Scott Throwe	(202) 564-7013
NSPS Subpart GG: Stationary Gas Turbines	Sims Roy	919-541-5263	Chris Oh	(202) 564-7004
NSPS Subpart HH: Lime Manufacturing	Joe Wood	919-541-5446	Scott Throwe	(202) 564-7013
NSPS Subpart KK: Lead Acid Batteries	Kevin Cavender	919-541-2364	Jane Engert	(202) 564-5021
NSPS Subpart LL: Metallic Mineral Processing	Bill Neuffer	919-541-5435	Keith Brown	(202) 564-7124
NSPS Subpart MM: Surface Coating, Auto	Dave Salman	919-541-0859	Suzanne Childress	(202) 564-7018
NSPS Subpart NN: Phosphate Rock	David Painter	919-541-5515	Cletis Mixon Steve Howie	(202) 564-4153 (202) 564-4146
NSPS Subpart PP: Ammonium Sulfate Manufacturing	David Painter	919-541-5515	Scott Throwe	(202) 564-7013
NSPS Subpart QQ: Graphic Arts, Rotograve Printing	Dave Salman	919-541-0859	Ginger Gotliffe	(202) 564-7072
NSPS Subpart RR: Pressure Sensitive Tape & Label Coating	Dan Brown	919-541-5305	Seth Heminway	(202) 564-7017
NSPS Subpart SS: Surface Coating, Large Appliances	Mohammed Serageldin	919-541-2379	Scott Throwe	(202) 564-7013

Regulation - Part 60	OAQPS Contact	Phone #	OC Contact	Phone #
NSPS Subpart TT: Surface Coating, Metal Coil	Gail Lacy	919-541-5261	Scott Throwe	(202) 564-7013
NSPS Subpart UU: Asphalt Roofing	Juan Santiago	919-541-1084	Andrew Cherry	(202) 564-5011
NSPS Subpart VV: VOC leaks, SOCMI	Rick Colyer	919-541-5262	Jeff Kenknight	(202) 564-7033
NSPS Subpart WW: Surface Coating, Beverage Cans	Gail Lacy	919-541-5261	Scott Throwe	(202) 564-7013
NSPS Subpart XX: Bulk Gasoline Terminals	Steve Shedd	919-541-5397	Julie Tankersley Peter Bahor	(202) 564-7002 (202) 564-7029
NSPS Subpart AAA: Woodstoves	Jeff Telander	919-541-5427	Robert Marshall	(202) 564-7021
NSPS Subpart BBB: Rubber Tire Manufacture	Tony Wayne	919-541-5439	Maria Malave	(202) 564-7027
NSPS Subpart DDD: Polymer Manufacture	Bob Rosensteel	919-541-5608	Sally Sasnett	(202) 564-7074
NSPS Subpart FFF: Flexible Vinyl and Urethane	Dan Brown	919-541-5305	Ginger Gotliffe	(202) 564-7072
NSPS Subpart GGG: Equipment Leaks, Petroleum Refineries	David Markwordt	919-541-0837	Tom Ripp	(202) 564-7003
NSPS Subpart HHH: Synthetic Fiber	Susan Wyatt	919-541-5674	Belinda Breidenbach	(202) 564-7022
NSPS Subpart III: SOCMI, Air Oxidation	Bob Rosensteel	919-541-5608	Jeff Kenknight	(202) 564-7033

Regulation - Part 60	OAQPS Contact	Phone #	OC Contact	Phone #
NSPS Subpart JJJ: Dry Cleaning	Steve Shedd	919-541-5397	Joyce Chandler	(202) 564-7073
NSPS Subpart KKK: Equipment Leaks, Onshore Natural Gas	David Markwordt	919-541-0837	Dan Chadwick	(202) 564-7054
NSPS Subpart LLL: Onshore Natural Gas	David Markwordt	919-541-0837	Dan Chadwick	(202) 564-7054
NSPS Subpart NNN: SOCMI Distillation Operations	Warren Johnson	919-541-5124	Jeff Kenknight	(202) 564-7033
NSPS Subpart OOO: Non metallic Mineral Processing	Bill Neuffer	919-541-5435	Keith Brown	(202) 564-7124
NSPS Subpart PPP: Wool Fiberglass Insulation	Bill Neuffer	919-541-5435	Scott Throwe	(202) 564-7013
NSPS Subpart QQQ: VOC from Petroleum Wastewater	Randy McDonald Elaine Manning	919-541-5402 919-541-5499	Tom Ripp Dan Chadwick	(202) 564-7003 (202) 564-7054
NSPS Subpart RRR: SOCMI Reactor Processes	Bob Rosensteel	919-541-5608	Jeff Kenknight	(202) 564-7033
NSPS Subpart SSS: Surface Coating, Magnetic Tape	Gail Lacy	919-541-5261	Steve Hoover	(202) 564-7007
NSPS Subpart TTT: Surface Coating, Plastic Parts for Business Machines	Ellen Ducey	919-541-5408	Maria Malave	(202) 564-7027
NSPS Subpart UUU: Calciners and Dryers	Bill Neuffer	919-541-5435	Keith Brown	(202) 564-7124

Regulation - Part 60	OAQPS Contact	Phone #	OC Contact	Phone #
NSPS Subpart VVV: Polymeric Coating of Supporting Substrates	Dan Brown	919-541-5305	Maria Malave	(202) 564-7027

Regulation - Part 61	OAQPS Contact	Phone #	OC Contact	Phone #
NESHAP Subpart A: General Provisions	Jim Szykman	919-541-2452	Belinda Breidenbach	(202) 564-7022
NESHAP Subpart B: Radon from underground Uranium Mines	ORIA (Office of Radiation & Indoor Air)	202-233-9370	Dan Chadwick	(202) 564-7054
NESHAP Subpart C: Berylium	Al Vervaert	919-541-5602	Jane Engert	(202) 564-5021
NESHAP Subpart D: Beryllium Rocket Motor Firing	Al Vervaert	919-541-5602	Virginia Lathrop	(202) 564-7057
NESHAP Subpart E: Mercury	Eugene Crumpler/ Illiam Rosario	919-541-0881/ 919-541-5308	Jane Engert	(202) 564-5021
NESHAP Subpart F: Vinyl Chloride	Bob Rosensteel	919-541-5608	Jeff Kenknight	(202) 564-7033
NESHAP Subpart H: Radionuclides from DOE	ORP	202-233-9370	Joanne Callahan Virginia Lathrop	(202) 564-5009 (202) 564-7057
NESHAP Subpart I: Radionuclide Emissions	ORP	202-233-9370	Joanne Callahan Virginia Lathrop	(202) 564-5009 (202) 564-7057
NESHAP Subpart J: Benzene Leaks	Jan Meyer	919-541-5254	Rafael Sanchez	(202) 564-7028
NESHAP Subpart K: Radionuclide from Elemental Phosphorous	ORP	202-233-9370	Joanne Callahan Virginia Lathrop	(202) 564-5009 (202) 564-7057
NESHAP Subpart L: Coke	Lula Melton	919-541-2910	Maria Malave	(202) 564-7027
NESHAP Subpart M: Asbestos	S. Fairchild-Zapata	919-541-5167	Tom Ripp	(202) 564-7003

Regulation - Part 61	OAQPS Contact	Phone #	OC Contact	Phone #
NESHAP Subpart N: Inorganic Arsenic From Glass Manufacture	Al Vervaert	919-541-5602	Scott Throwe	(202) 564-7013
NESHAP Subpart O: Arsenic from Primary Copper Smelters	Eugene Crumpler	919-541-0881	Jane Engert	(202) 564-5021
NESHAP Subpart P: Arsenic	Al Vervaert	919-541-5602	Jane Engert	(202) 564-5021
NESHAP Subpart R: Radon from Phosphogypsum Stacks	ORP	202-233-9370	Joanne Callahan Virginia Lathrop	(202) 564-5009 (202) 564-7057
NESHAP Subpart T: Radon from disposal of Uranium Mine Tailings	ORP	202-233-9370	Joanne Callahan Virginia Lathrop	(202) 564-5009 (202) 564-7057
NESHAP Subpart V: Equipment Leaks,	Jan Meyer	919-541-5254	Rafael Sanchez	(202) 564-7028
NESHAP Subpart W: Radon from Operating Mill Tailings	ORP	202-233-9370	Joanne Callahan Virginia Lathrop	(202) 564-5009 (202) 564-7057
NESHAP Subpart Y: Benzene Storage Vessels	Randy McDonald	919-541-5402	Rafael Sanchez	(202) 564-7028
NESHAP Subpart BB: Benzene from Transfer Operations	David Markwordt	919-541-0837	Rafael Sanchez	(202) 564-7028
NESHAP Subpart FF: Benzene Waste Operations	Bob Lucas	919-541-0884	Rafael Sanchez	(202) 564-7028

Regulation - Part 63	OAQPS Contact	Phone #	OC Contact	Phone #
NESHAP Subpart A: General Provisions	Jim Szykman	919-541-2452	Belinda Breidenbach	(202) 564-7022
NESHAP Subpart F-H, The HON	Jan Meyer	919-541-5254	Jeff Kenknight	(202) 564-7033
NESHAP Subpart L: Coke Oven Batteries	Amanda Agnew	919-541-5268	Maria Malave	(202) 564-7027
NESHAP Subpart M: Perc Dry Cleaners	George Smith	919-541-1549	Joyce Chandler	(202) 564-7073
NESHAP Subpart N: Chromium Electroplating	Lalit Banker / Phil Mulrine	919-541-5420/ 919-541-5289	Scott Throwe	(202) 564-7013
NESHAP Subpart O: Ethyline Oxide Sterilizers	David Markwordt	919-541-0837	Karin Leff	(202) 564-7068
NESHAP Subpart Q: Industrial Process Cooling Towers	Phil Mulrine	919-541-5289	Mimi Guernica	(202) 564-2415
NESHAP Subpart R: Gasoline Distribution	Steve Shedd	919-541-5397	Julie Tankersley	(202) 564-7002
NESHAP Subpart T:Halogenated Solvent Cleaning	Paul Almodovar	919-541-0283	Tracy Back	(202) 564-7076
NESHAP Subpart U: Polymers & Resins Group I	Randy McDonald	919-541-5402	Sally Sasnett	(202) 564-7074
NESHAP Subpart W: Epoxy Resins & Non- nylon Polymides	Randy McDonald	919-541-5402	Sally Sasnett	(202) 564-7074
NESHAP Subpart X: Secondary Lead Smelters	Kevin Cavender	919-541-2364	Jane Engert	(202) 564-5021

Regulation - Part 63	OAQPS Contact	Phone #	OC Contact	Phone #
NESHAP Subpart Y: Marine Vessel Loading	David Markwordt	919-541-0837	Virginia Lathrop	(202) 564-7057
NESHAP Subpart CC: Petroleum Refineries	Jim Durham	919-541-5672	Tom Ripp	(202) 564-7003
NESHAP Subpart DD: Off-Site Waste & Recovery Operations	Michele Aston	919-541-2363	Ann Stephanos	(202) 564-7043
NESHAP Subpart EE: Magnetic Tape Manufacture	Gail Lacy	919-541-5261	Seth Heminway	(202) 564-7017
NESHAP Subpart GG: Aerospace	Jim Szykman	919-541-2452	Suzanne Childress	(202) 564-7018
NESHAP Subpart II: Ship Building and Repair	Mohammed Serageldin	919-541-2379	Suzanne Childress	(202) 564-7018
NESHAP Subpart JJ: Wood Furniture Manufacturing	Paul Almodovar	919-541-0283	Robert Marshall	(202) 564-7021
NESHAP Subpart KK: Printing and Publishing	Dave Salman	919-541-0859	Ginger Gotliffe	(202) 564-7072
NESHAP Subpart JJJ: Polymers & Resins Group IV	Bob Rosensteel	919-541-5608	Sally Sasnett	(202) 564-7074

APPENDIX J

Small Business Regulatory Enforcement Fairness Act (SBREFA)

Chapter 4

Development and Distribution of SBREFA Compliance Guides

Section	Subject	Page
I.	EPA's Approach to Compliance Guides	1
II.	SBREFA Compliance Guide Template	6

I. EPA'S APPROACH TO COMPLIANCE GUIDES

A. What does SBREFA require?

- 1. When the Agency prepares a regulatory flexibility analysis for a final rule, SBREFA Section 212 also requires the Agency to:
 - a. designate one or more publications regarding such a rule or group of rules as small entity compliance guides;
 - b. explain in the guide actions a small entity must take to comply with a rule or group of rules; and
 - c. distribute the guides to small entities through "comprehensive sources of information."
- 2. While compliance guides are not themselves judicially reviewable, they may be considered as evidence of the reasonableness or appropriateness of any penalties or damages in any civil or administrative action against a small entity. Accordingly, the statute gives us broad discretion with regard to implementation of these requirements for designation, development and distribution of the guides. The sections that follow describe how the Agency has chosen to exercise this discretion, the specifics of which may not necessarily be required by SBREFA. As we gain experience, we may issue additional guidance.

B. What is the goal in writing a compliance guide?

The primary goal of the guide is to help small entities—whether they are small businesses, communities or non-profits—to comply with the regulation. You should therefore write your guide with your audience in mind and recognize that this segment of our regulated community may have trouble with standard government writing styles. We suggest that you write in plain and simple language insofar as possible. (While small entities are the primary audience for the guides, some of the compliance information may also be applicable to large entities and you may choose to present these similarities/differences as you develop your guide).

C. Who participates in the development of the Guides?

- 1. The lead rule-writing office is responsible for developing the rule-specific compliance guide as part of the rulemaking process.
- 2. The regulatory development workgroup, as well as representatives from OECA, OGC, OSBO, OPPT's Pollution Prevention Division, and regional offices can also provide assistance/support, or develop sections of the guide, as appropriate. If your regulatory development workgroup is not represented by the appropriate offices, you should work through your Steering Committee representative to identify them.
- 3. Small entity representatives should typically be involved in reviewing the draft compliance guide after the rule is promulgated so that we have the benefit of their comments and advice in preparing the final version of the guide.
 - a. With the exception stated below (b.), draft compliance guides should not be released to outside parties prior to the rule's promulgation.
 - b. In those unusual circumstances where the outline of the compliance guide is clear to the lead program at the pre-proposal stage, then they may seek review and feedback from small entity stakeholders at that stage.
 - c. You should share the draft compliance guide and solicit comment from small entity stakeholders after promulgation, but will need to balance such review with a commensurate concern for timely issuance of the guide.

D. When should I begin developing the guide and when will it need to be completed?

1. You should integrate development of the guide into the rulemaking process. Generally, begin work on your guide as soon as you have enough information to do so. This point will vary from rule to rule; sometimes it is clear even before the rule is proposed, and in

other cases not enough is known until just prior to final promulgation. In either event, you should not schedule additional time during the rulemaking process for development of the guide. The Agency will not ask for extension of any court deadlines in order to complete compliance guides.

2. Keep in mind that the goal is to make the guide available after promulgation in sufficient time for it to be of practical help to small entities in evaluating and implementing their compliance options before the compliance deadline. You should make every effort to issue the guide within two months of the promulgation of the final rule.

E. What are the other timing considerations in developing and issuing the Guide?

1. The constraints on outside participation during the final rule phase in development of the Guide leave a relatively short time after promulgation to both take comment from small entity stakeholders and issue the final Guide. This makes advance planning and drafting essential.

Tip: Identify your small entity reviewers early in the process. You should consider using those small entity representatives who participated in the development of the proposed rule.

- 2. If the issuance of your guide may be delayed beyond a month or two, you should issue a Fact Sheet or other brief description of the rule as an interim measure.
- 3. If your rule has a distant compliance date (e.g., two years or more), you may want to reissue the Guide closer to the compliance date.

F. What sorts of questions should I ask my small entity reviewers?

Some suggestions include:

- Is the format appropriate?
- Is the guide clear and easy to read and understand?
- Does the guide accurately describe the rule as published?
- Is the guide useful in planning for compliance?

G. How do I document development of the Guide?

- 1. If you are doing an Analytic Blueprint you should include plans for developing the guide, including a time line, and the resources needed. If there is no Blueprint, you should integrate it into your action or work plan.
- 2. When you submit your final rule to the Administrator for signature, you must also submit a schedule for development and completion of the compliance guide.
- 3. Include your distribution strategy for the guide in the Communications Plan. This is in addition to your notification plan for the announcement of the rule.
- 4. Ultimately, the lead office will input information related to the development of the guide into OPPE's Regulatory Information System, which is currently under development. Lead offices may also develop internal methods for tracking the development of the guides.

H. What internal Agency concurrence do I need for the Guide and how do I get it?

You need concurrence from both OGC and OECA. Normally, you will ask members of your workgroup from these offices to assure that appropriate levels of management in their offices approve the draft. (OGC and OECA will determine the level of concurrence they need within their offices). If you don't have OGC and/or OECA members on your workgroup, contact your Steering Committee representative who will obtain/identify contacts for you.

I. When the Guide is in final form, who can help me with distribution?

- 1. In addition to internal office distribution mechanisms, you should provide Guides to the Office of the Small Business Ombudsman, the Office of Regional and State/Local Relations, the Office of Communications, Education and Public Affairs. These offices will distribute the Guide to their small entity contacts. (You should assure, to the extent it is feasible, that these offices do not have duplicate distribution lists.)
- 2. Distribution must be consistent with the recommendations of the Enhanced Public Access Task Force.
- 3. Other small business assistance providers include:
 - State Technical Assistance Programs for Pollution Prevention
 - State Small Business Assistance Programs
 - Small Business Development Centers
 - Manufacturing Extension Partnership Centers funded by NIST
 - Northeast Waste Management Officials Association
 - Illinois Hazardous Waste Research and Information Center

- Waste Reduction Resource Center for the Southeast, and
- the Small Business Administration, USDA and OSHA

J. How do we ensure that guides are kept up to date?

- 1. As a statutory matter, compliance guides may have evidentiary uses in litigation so it is important that guides be reviewed and revised as needed. It is the responsibility of the lead office to assure compliance guides are kept current. There is one case in which you must review an existing guide and several others when revisions may be desirable:
 - a. Because we must generally review within ten years of promulgation any final rules for which we conducted regulatory flexibility analyses, the guide will be reviewed concurrently with the rule on or before the 10-year anniversary.
 - b. Other circumstances which may occasion revisions include:
 - Changes in the rule which affect compliance
 - Comments from the public suggesting revisions, or from OECA based on their experience in enforcing the regulation. (See Appendix, Section C for instructions on soliciting customer feedback).
 - Litigation citing a guide as a reason to challenge the appropriateness of proposed penalties.
- 2. You should indicate in every guide that there may be subsequent revisions to the guide and include information about obtaining the revised guide. Place the most current guide in the appropriate docket, on a special section in EPA's internet page, or other electronic bulletin boards.

Note: OECA may, at a later date, develop sector-specific, multimedia guides which would integrate rule-specific guides. OECA will notify program offices if and when it undertakes this project and will coordinate development of such guides through the Agency's Regulatory Steering Committee.

II. TEMPLATE FOR COMPLIANCE GUIDES

An Agency workgroup has developed the following template to help you in structuring your compliance guide, and you should use it in accordance with the guidance given earlier in the chapter. While SBREFA does not mandate a particular format, we urge you to adopt it so that we may have general consistency across the Agency and to assure that significant compliance

issues are adequately covered. If your rule does not, for some reason, lend itself to this template, you may use it as a checklist to ensure that all potentially relevant compliance issues are covered.

The template is organized as follows:

- Non-italicized text indicates sections which should normally be included in the compliance guide.
- We have also included standard language which you may choose to use if it is appropriate to your rule, and it is presented in *italics*. You should adapt this standard language to the specifics of your rule as necessary.
- Program offices have lead responsibility unless otherwise designated in **bold**.

Please make your best effort to write your guide in plain language using the guidance at http://www.blm.gov/nhp/NPR/plaineng.html.

SMALL ENTITY COMPLIANCE GUIDE [insert title of rule or program...]

I. INTRODUCTION

This document is published by the Environmental Protection Agency (EPA) as our official compliance guide for small entities, as required by the Small Business Regulatory Enforcement Fairness Act of 1996. Before you begin using the guide you should know that the information in this guide was compiled and published on [INSERT PUBLICATION DATE]. EPA is continually improving and upgrading its rules, policies, compliance programs, and outreach efforts. You can determine whether EPA has revised or supplemented the information in this guide by calling [INSERT HOTLINE NUMBER OR INTERNET ADDRESS].

A. Who Should Use this Guide?

1. To the extent possible, the guide should identify all the types/categories of small entities that will be subject to the rule's requirements. Bear in mind that other entities may be *indirectly* affected but may not be required to comply. This section needs to make this distinction clear to the reader.

Tip: Use the compliance table from the "Summary" section of your rule's preamble to convey this information. Be sure to modify it if necessary to target small entities.

- 2. In many cases, the guide will also be useful to larger entities subject to the rule. You may wish to point out any similarities or differences at this stage but you should not go into great detail on this subject.
- B. What does the Guide Cover?
- C. How do I use the Guide?
- D. How do I Obtain a Complete Copy of the Rule?

List an 800 number, *Federal Register* citation or the Government Information Locator Service.

II. WHAT DOES THE REGULATION REQUIRE?

A. What environmental/human health issue(s) does this rule address and why it is important?

B. Summary of the New Regulation

- 1. Using plain English, summarize the rule in a narrative format. This should be a simplified adaptation of the issues you discussed in the rule's preamble.
- 2. Additionally, provide a visual description (e.g., chart or flowchart) of the rule's requirements as it applies to small entity operations or processes. "Operations" include traditional facility-based operations and non-traditional based operations such as farms, communities or schools.

C. Compliance Timetable

Identify in easy-to-read format (e.g., flowchart, time line, timetable) compliance dates for notifications and other requirements.

D. How Does this Regulation Relate to Other Federal, State, and Local Requirements?

- 1. Each Program should develop specific template language concerning program delegations and relationships to other requirements **generally**, or, where appropriate, referring back to general provisions applicable to all regulations in a subgroup to which the new regulation belongs (e.g., New Source Performance Standards under the Clean Air Act). Programs have the flexibility to expand this section as appropriate, to address this issue more **specifically**.
- 2. Meanwhile, here is suggested template language which may be appropriate in many cases:

This compliance guide explains your federal compliance obligations with respect to _____ rule. There may be other state or local requirements which apply to you which are different from, or more stringent than, the federal requirements. For example, some environmental statutes allow EPA to delegate environmental programs to a state. The state may then promulgate its own rules which may supersede the federal requirements. For more information on the rules that apply in your State, please contact [INSERT CONTACT POINT].

III. STEP-BY-STEP PROCEDURES FOR COMPLIANCE WITH THIS RULE

This is where you break down the rule into discrete subject areas using a step-by-step, question/answer approach. Questions in this section will depend on the particular rule. All the following questions are EXAMPLES of the types of questions that may be appropriate to include.

- A. How can I tell if I am subject to this rule?
- B. What requirements am I subject to?
- C. When do I need to comply? (elaborate on flowchart, as appropriate)
- **D.** What do I need to do to comply?

Be sure to address such questions as:

- How does this rule affect my existing permit?
- How much will it cost to comply with this rule?
- E. What, when and how must I monitor or test?
- F. What records do I need to keep and for how long?

Include sample forms and calculations.

G. What, when and to whom must I report?

Include sample forms.

- H. How do I minimize harm if I think I am out of compliance? (Program lead/OECA support)
- I. Where do I go for help?

Give information on federal, State and local contacts, Agency hotlines, or State Small Business Assistance Program contacts.

- J. What is pollution prevention and how can it affect my operations? (OPPT lead)
- 1. Discuss pollution prevention and its benefits, including how it may be used to help a facility/operation save money and/or possibly avoid regulation.

2. To the extent that there are other pollution prevention opportunities, including those which may make good business sense or could exempt a small entity from certain requirements, the program, with support from OPPT, has the option to expand this section and include this information.

K. Are there opportunities for flexibility or waivers?

If this is applicable in a given rule, these opportunities can be highlighted here. For example, there are circumstances in which the Safe Drinking Water Act allows temporary variances or exemptions from maximum contaminant levels.

IV. OPTIONAL QUESTIONS AND ANSWERS ABOUT FACILITY/OPERATIONS/PROCESSES

Here you want to anticipate questions of potential concern to the regulated community, including how the rule fits into the overall regulatory program. Questions will depend on the rule; the questions below are only EXAMPLES. [*Tip:* A self-audit checklist can be very helpful to small entities and may be used alone or in conjunction with a question and answer format.]

A. How do I conduct a self-audit of my facility/firm/operation to help me evaluate whether I am in compliance with this rule?

Provide Self-Audit Checklist (**Program/OECA**)

B. What are the implications of this rule for my existing permits?

Adapt this to your particular rule or program.

C. How Does this Rule Change How I Handle/ Store Wastes? (if guide were written for RCRA rule)

V. THE COMPLIANCE ASSURANCE PROCESS (OECA LEAD)

This section should describe in clear, non-threatening terms why compliance is important, the potential consequences of violating the law, and how the entity can work with us to identify and correct its compliance problems, often without the need for a formal enforcement action or penalty.

Draft this section to ensure that small entities understand:

- how EPA determines compliance
- what they must do if they discover a violation, and
- the available compliance assistance/enforcement options.

Include only information that is directly relevant to the rule. You may attach more detailed information, or information you feel may be helpful, in an Appendix.

A. How Is My Operation's Compliance With Environmental Requirements Determined?

Discuss compliance assistance, inspections, self-monitoring and the role of citizens.

B. If I Discover a Violation, How Can I Work With The Agency to Correct It?

Discuss compliance incentives policies: Small Communities Policy, Policy on Compliance Incentives for Small Businesses, Self-Disclosure Policy.

C. If the Agency Discovers a Violation, What Might Be Its Response?

To maximize compliance, EPA implements a balanced program of compliance assistance, compliance incentives, and traditional law enforcement. EPA knows that small businesses which must comply with complicated new statutes or rules often want to do the right thing, but may lack the requisite knowledge, resources, or skills. Compliance assistance information and technical advice helps small businesses to understand and meet their environmental obligations. Compliance incentives, such as our Small Business Policy, encourage persons to voluntarily discover, disclose, and correct violations before they're identified by the government. EPA's strong law enforcement program protects all of us by targeting persons who neither comply nor cooperate to address their problems.

EPA uses a variety of methods to determine whether businesses are complying, including inspecting facilities, reviewing records and reports, and responding to citizen complaints. If we learn a person is violating the law, EPA (or a State, if the program is delegated) may file an enforcement action seeking penalties of up to \$[INSERT STATUTORY MAXIMUM AMOUNT], per violation, per day. The proposed penalty in a given case will depend on many factors, including the number, length, and severity of the violations, the economic benefit obtained by the violator, and its ability to pay. EPA has polices in place to ensure penalties are calculated fairly. These policies are available to the public. In addition, any

company charged with a violation has the right to contest EPA's allegations and proposed penalty before an impartial judge or jury.

In summary, EPA recognizes that we can achieve the greatest possible protection by encouraging small businesses to work with us to discover, disclose, and correct violations. That's why we've issued self-disclosure, small business, and small community policies to eliminate or reduce penalties for small and large entities which cooperate with EPA to address compliance problems. In addition, we've established compliance assistance centers to serve over a million small businesses. For more information on these and other EPA programs for small businesses, please contact [INSERT POINT OF CONTACT].

D. What is the legal status of this guide?

A judge can look at a compliance guide in determining what penalty is appropriate and reasonable, although the content of the guide cannot otherwise be reviewed by the court.

In this Compliance Guide, we have tried to make clear what you must do to comply with the applicable law and regulation. This is the minimum required by SBREFA. You'll notice, however, that here and there we have also included suggestions for alternative approaches that may make compliance easier and possibly even reduce costs. We hope you find this presentation of regulatory requirements useful and the additional information helpful in reaching and maintaining compliance.

APPENDIX

A. Glossary of Environmental Terms

Define terms which are relevant to the rule but which may be too basic to be defined in the rule itself. For example, "permit," "pollution prevention," "process."

B. Where to Obtain More Information

This section gives supplemental information. Examples might include other existing quality compliance guidance, pollution prevention guidance, pollution prevention case studies, other media contacts, trade associations, or university assistance programs.

C. Questionnaire - How Useful Was This Guide?

Each guide should contain a brief questionnaire to solicit feedback from users as to the usefulness, readability, and improvements needed for the guide. Questionnaires will be returned to OPPE/RMD and then forwarded to the Agency contact. Please use the following page:

Date	::	
Title	of Rule or Program:	
Nam	te of Commenter (optional):	
follo	Please take a moment to let us know if you found this guide useful by answe wing questions. Thank you, your feedback is important to us.	ring the
1.	I could easily understand what requirements I must meet	
2.	The guide is written in understandable language	
3.	The guide helped me understand the steps I must take to comply with the ru	le
4.	If you have suggestions to improve the guide, please indicate below:	
	Please fold on dashed line, affix postage and return by mail. Thank-you	1
	1 lease fold on dashed fine, arrix postage and feturi by man. Thank-you	<u> </u>
		Affix Postage Here

U.S. EPA Regulatory Management Division Mail Code 2136 401 M St. SW Washington, DC 20460

APPENDIX K

Master Compliance Timeline for Part 63 NESHAP

Methods for Compilation of the Draft Master Compliance Timeline

The Draft Master Compliance Timeline was developed from an OAQPS/ESD document that summarized milestone dates for each promulgated NESHAP listed in 40 CFR Part 63. In general, the milestones are similar for each NESHAP. Where exceptions or unique milestones were an issue, the information was noted in the Timeline.

The milestone dates listed are the latest possible dates by which the action item must be completed. Thus, using the Secondary Lead Smelting NESHAP as an example, if an Owner/Operator of a Secondary Lead Smelting Facility schedules a Performance Test on November 20, 1997, instead of the latest possible date (stated in the standard) of December 20, 1997, the first Compliance Status Report must be submitted by January 19, 1998 (i.e., within the required 60 days) not on February 18, 1998.

Most NESHAPs follow the steps indicated in the table below, and these milestones are included in the Master Compliance Timeline.

ACTION ITEM	MILESTONE DATE ^a
Effective Date	determined by the EPA
O/O: Initial Notification Due	within 120 days of the effective date
O/O: Submit Special Compliance Monitoring or Implementation Plans	varies by standard
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans	varies by standard
O/O: Request for Compliance Extension	12 months before the compliance date
EPA/State: Approval for Request of Compliance Extensions	3 months after request
Compliance Date	3 years after Effective Date
O/O: Notice of Performance Test	30 days before Performance Test
EPA/State: Approval of Site-Specific Test Plan	Up to the Performance Test date

Performance Test	180 days after Compliance Date
Compliance Status Reports	First one is due within 60 days of the Performance Test
Applicability Date for New Sources	determined by the EPA

Source: Fruh, S., Summary of Compliance Dates for Promulgated Part 63 MACT Regulations, December, 1996.

O/O = Owner/Operator

Due to the various criteria for determining implementation dates under the Coke Ovens HAP, it was not included in the Master Compliance Timeline (with the exception of the Applicability Date for New Sources").

Because the following action items are only applicable to new sources (which are a small percentage of the currently regulated population), they were not included in the Master Compliance Timeline.

ACTION ITEM	MILESTONE DATE
O/O: Application for Approval to Construct/Reconstruct a Major Emitting Source	determined by the Owner/Operator
EPA/State: Notice of Complete Information	30 days from application
EPA/State: Approval or Disapproval of Construction/Reconstruction	60 days from application
O/O: Notice of Intended Startup	60 days before startup

Source: Fruh, S., Summary of Compliance Dates for Promulgated Part 63 MACT Regulations, March, 1997.

III/OTER COM EI/RIGE TIMEEIRE	
TIMELINE CATEGORY	
Applicability Date for New Sources	
Effective Date	
O/O: Initial Notification Due	
0/0. Illitial Notification Due	
O/O: Submit Special Compliance Monitoring or	
Implementation Plans	
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans	
monitoring of implementation Flans	
O/O: Request for Compliance Extension	
EPA/State: Approval of Request for Compliance	
Extensions	
O-multi-man Data	
Compliance Date	
O/O: Notice of Performance Test	
EPA/State: Approval of Site-Specific Test Plan	
Performance Test	
Compliance Status Reports	

TIMELINE CATEGORY	
Applicability Date for New Sources	
Effective Date	
O/O: Initial Notification Due	
O/O: Submit Special Compliance Monitoring or	
Implementation Plans	
EPA/State: Review/Approve Special Compliance	
Monitoring or Implementation Plans	
O/O: Request for Compliance Extension	
EPA/State: Approval of Request for Compliance	
Extensions	
LACEISIONS	
Compliance Date	
O/O: Notice of Performance Test	
O/O: Notice of Performance Test	
EPA/State: Approval of Site-Specific Test Plan	
Li Alotate. Approvar of Oite-opecific rest i fair	
Performance Test	
Compliance Status Reports	

TIMELINE CATEGORY	Nov-90	Dec-90	Jan-91	Feb-91	Mar-91	Apr-91	May-91	Jun-91	Jul-91	Aug-91	Sep-91	Oct-91	Nov-91	Dec-91
Applicability Date for New Sources	<u>11/15/90</u> - Coke Ovens													12/9/91 - Perchloroethylene Dry Cleaning Facilities
Effective Date														
O/O: Initial Notification Due														
O/O: Submit Special Compliance Monitoring or Implementation Plans														
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans														
O/O: Request for Compliance Extension														
EPA/State: Approval of Request for Compliance Extensions														
Compliance Date														
O/O: Notice of Performance Test														
EPA/State: Approval of Site-Specific Test Plan														
Performance Test														
Compliance Status Reports														

Jan-92	Feb-92	Mar-92	Apr-92	May-92	Jun-92	Jul-92	Aug-92	Sep-92	Oct-92	Nov-92		Jan-93	Feb-93	Mar-93
											<u>12/31/92</u> - SOCMI			
	Jan-92	Jan-92 Feb-92	Jan-92 Feb-92 Mar-92	Jan-92 Feb-92 Mar-92 Apr-92 Image: Apr-92 in the properties of t	Jan-92 Feb-92 Mar-92 Apr-92 May-92 Image: Apr-92 marrow of the properties of the pr	Jan-92 Feb-92 Mar-92 Apr-92 May-92 Jun-92 Jan-92 May-92 Jun-92 May-92 Jun-92 Jan-92 May-92 Jun-92 Jun-92 Jan-92 May-92 Jun-92 Jan-92 May-92 Jun-92 Jan-92 May-92 Jun-92 Jan-92 Jun-92 Jun-92	Jan-92 Feb-92 Mar-92 Apr-92 May-92 Jun-92 Jul-92 Image: Apr-92 apr-94 apr-95 apr-96 ap	Jan-92 Feb-92 Mar-92 Apr-92 May-92 Jun-92 Jul-92 Aug-92 <td>Jan-92 Feb-92 Mar-92 Apr-92 May-92 Jun-92 Jul-92 Aug-92 Sep-92 Image: Apr-92 marrow of the properties of</td> <td>Jan-92 Feb-92 Mar-92 Apr-92 May-92 Jun-92 Jun-92 Aug-92 Sep-92 Oct-92 </td> <td>Jan-92 Feb-92 Mar-92 Apr-92 May-92 Jun-92 Jul-92 Aug-92 Sep-92 Oct-92 Nov-92 <</td> <td>12/31/92</td> <td>12/31/92 -</td> <td>12/31/92 -</td>	Jan-92 Feb-92 Mar-92 Apr-92 May-92 Jun-92 Jul-92 Aug-92 Sep-92 Image: Apr-92 marrow of the properties of	Jan-92 Feb-92 Mar-92 Apr-92 May-92 Jun-92 Jun-92 Aug-92 Sep-92 Oct-92	Jan-92 Feb-92 Mar-92 Apr-92 May-92 Jun-92 Jul-92 Aug-92 Sep-92 Oct-92 Nov-92 <	12/31/92	12/31/92 -	12/31/92 -

TIMELINE CATEGORY	Apr-93	May-93	Jun-93	Jul-93	Aug-93	Sep-93	Oct-93	Nov-93	Dec-93	Jan-94	Feb-94
Applicability Date for New Sources					<u>8/12/93</u> - Industrial Process Cooling Towers			11/29/93 - Halogenated Solvent Cleaning	12/16/93 - Chrome Electroplating		<u>2/8/94</u> - Gasoline Distribution
Effective Date						9/22/93 - Perchloroethylene Dry Cleaning Facilities	<u>10/27/93</u> - Coke Ovens				
O/O: Initial Notification Due											
O/O: Submit Special Compliance Monitoring or Implementation Plans											
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans											
O/O: Request for Compliance Extension											
EPA/State: Approval of Request for Compliance Extensions											
Compliance Date									12/20/93 - Perchloroethyle ne (Work Practice)		
O/O: Notice of Performance Test											
EPA/State: Approval of Site-Specific Test Plan											
Performance Test											
Compliance Status Reports											

TIMELINE CATEGORY	Mar-94	Apr-94	May-94	Jun-94	Jul-94
Applicability Date for New Sources	3/7/94 - Ethylene Oxide Commercial Sterilization Facilities 3/11/94 - Magnetic Tape Manufacturing		5/13/94 - Marine Tank Vessel Loading Operations 5/16/94 - Epoxy Resins and Non-Nylon Polyamides Production	6/6/94 - Aerospace Manufacturing and Rework Facilities 6/9/94 - Secondary Lead Smelting	7/15/94 - Petroleum Refineries: Other Sources Not Directly Listed
Effective Date		<u>4/24/94</u> - SOCMI			
O/O: Initial Notification Due				6/18/94 - Perchloroethylene Dry Cleaning Facilities	
O/O: Submit Special Compliance Monitoring or Implementation Plans					
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans					
O/O: Request for Compliance Extension					
EPA/State: Approval of Request for Compliance Extensions					
Compliance Date					
O/O: Notice of Performance Test					
EPA/State: Approval of Site-Specific Test Plan					
Performance Test					
Compliance Status Reports				6/18/94 - Perchloroethylene (Work Practice)	

TIMELINE CATEGORY	Aug-94	Sep-94	Oct-94	Nov-94	Dec-94	Jan-95	Feb-95
Applicability Date for New Sources			10/13/94 - Off-Site Waste and Recovery Operations		12/6/94 - Shipbuilding and Ship Repair Facilities 12/6/94 - Wood Furniture Manufacturing Operations NESHAP		
Effective Date		<u>9/8/94</u> - Industrial Process Cooling Towers			12/2/94 - Halogenated Solvent Cleaning 12/6/94 - Ethylene Oxide Commercial Sterilization Facilities 12/14/94 - Gasoline Distribution 12/15/94 - Magnetic Tape Manufacturing	1/25/95 - Chrome Electroplating	
O/O: Initial Notification Due	<u>8/19/94</u> - SOCMI						
O/O: Submit Special Compliance Monitoring or Implementation Plans							
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans							
O/O: Request for Compliance Extension							
EPA/State: Approval of Request for Compliance Extensions							
Compliance Date			10/24/94 - window begins for Subpart H under SOCMI				
O/O: Notice of Performance Test							
EPA/State: Approval of Site-Specific Test Plan							
Performance Test							
Compliance Status Reports							

TIMELINE CATEGORY	Mar-95	Apr-95	May-95	Jun-95	Jul-95	Aug-95
Applicability Date for New Sources	3/14/95 - Printing and Publishing 3/29/95 - Polymer & Resins Group IV			6/12/95 - Polymers & Resins Group I		
Effective Date	3/8/95 - Epoxy Resins and Non-Nylon Polyamides Production			<u>6/23/95</u> - Secondary Lead Smelting		<u>8/18/95</u> - Petroleum Refineries: Other Sources Not Directly Listed
O/O: Initial Notification Due		4/8/95 - Ethylene Oxide Commercial Sterilization Facilities 4/14/95 - Magnetic Tape Manufacturing			7/6/95 - Epoxy Resins and Non-Nylon Polyamides Production 7/24/95 - Chrome Electroplating	<u>8/29/95</u> - Halogenated Solvent Cleaning
O/O: Submit Special Compliance Monitoring or Implementation Plans						
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans						
O/O: Request for Compliance Extension				<u>6/25/95</u> - Chrome Electroplating (decorative)		
EPA/State: Approval of Request for Compliance Extensions						
Compliance Date						
O/O: Notice of Performance Test						
EPA/State: Approval of Site-Specific Test Plan						
Performance Test						
Compliance Status Reports						

TIMELINE CATEGORY	Sep-95	Oct-95	Nov-95	Dec-95	Jan-96	Feb-96	Mar-96	Apr-96
Applicability Date for New Sources								
Effective Date	9/1/95 - Aerospace Manufacturing and			<u>12/7/95</u> - Wood Furniture				
	Rework Facilities			Manufacturing Operations				
	<u>9/19/95</u> - Marine Tank Vessel Loading Operations			<u>12/15/95</u> - Shipbuilding and Ship Repair Facilites				
O/O: Initial Notification Due	9/8/95 - Industrial Process Cooling	<u>10/23/95</u> -		Onio Revaii Facilites				
	Tower	Secondary Lead Smelting						
O/O: Submit Special Compliance Monitoring or		Smeiling						
Implementation Plans								
p.oonation i tallo								
EPA/State: Review/Approve Special Compliance								
Monitoring or Implementation Plans								
O/O: Request for Compliance Extension				<u>12/15/95</u> - Magnetic Tape				
				Manufacturing (w/o new control device)				
EPA/State: Approval of Request for Compliance	9/25/95 - Chrome Electroplating						3/15/96 - Magnetic	
Extensions	(decorative)						Tape Manufacturing	
							(w/o new control device)	
							device)	
Compliance Date		<u>10/23/95</u> -			<u>1/25/96</u> -		<u>3/8/96</u> - Industrial	
Compilation Date		window ends for			Chrome		Process Cooling	
		Subpart H under			Electroplating		Towers	
		SOCMI			(Decorative)			
O/O: Notice of Performance Test								
EPA/State: Approval of Site-Specific Test Plan								
Performance Test								
Compliance Status Reports								
				1	1	ĺ		

TIMELINE CATEGORY	May-96	Jun-96	Jul-96	Aug-96	Sep-96	Oct-96
Applicability Date for New Sources						
Effective Date	<u>5/30/96</u> -		7/1/96 - Off-		9/5/96 - Polymers and Resins Group I	
Encouve Bate	Printing and		Site Waste and		9/12/96 - Polymers and Resins Group IV	
	Publishing		Recovery			
		<u>6/13/96</u> - Shipbuilding	Operations		0/0/00 Was a Francis as Manufacturia a Occasiona	10/28/96 - Off-Site Waste and
O/O: Initial Notification Due		and Ship Repair			<u>9/3/96</u> - Wood Furniture Manufacturing Operations <u>9/19/96</u> - Marine Tank Vessel Loading Operations	Recovery Operations
		Facilities			- Manne Tank Vesser Loading Operations	Recovery Operations
O/O: Submit Special Compliance Monitoring or		- dominoo				
Implementation Plans						
mpionionation i fano						
EPA/State: Review/Approve Special Compliance						
Monitoring or Implementation Plans						
monitoring of implementation realis						
O/O: Request for Compliance Extension		<u>6/25/96</u> - Chrome				
o/o. Request for compliance Extension		Electroplating (hard &				
		anodizing)				
EPA/State: Approval of Request for Compliance					9/25/96 - Chrome Electroplating (hard & anodizing)	
Extensions						
Extensions						
Compliance Date					<u>9/23/96</u> - Perchloroethylene Dry Cleaning Facilities	
O/O: Notice of Performance Test	<u>5/24/96</u> -					
	Chrome					
	Electroplating (decorative)					
	(decorative)					
EPA/State: Approval of Site-Specific Test Plan		<u>6/23/96</u> - Chrome				
		Electroplating				
		(decorative)				
Performance Test			<u>7/23/96</u> -			
			Chrome			
			Electroplating (decorative)			
Compliance Status Reports			i decorative/			10/21/96 - Chrome
						Electroplating (decorative)
						10/23/96 - Perchloroethylene
						Dry Cleaners (control hardware)

TIMELINE CATEGORY	Nov-96	Dec-96	Jan-97	Feb-97
Applicability Date for New Sources				
Effective Date				
O/O: Initial Notification Due		12/16/96 - Gasoline Distribution (also notification date, if using a screening equation)		
O/O: Submit Special Compliance Monitoring or Implementation Plans		12/16/96 - Shipbuilding and Ship Repair Facilities 12/23/96 - Secondary Lead Smelting		2/18/97 - Petroleum Refining (for those choosing emissions averaging)
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans				a ronagin gy
O/O: Request for Compliance Extension	11/21/96 - Wood Furniture Manufacturing Operations (w/ sources emitting > 50 tons HAPs in 1996)	12/2/96 - Halogenated Solvent Cleaning 12/8/96 - Ethylene Oxide Commercial Sterilization Facilities 12/15/96 - Magnetic Tape Manufacturing (w/new control device) 12/16/96 - Gasoline Distribution 12/24/96 - SOCMI		
EPA/State: Approval of Request for Compliance Extensions		THE TAXABLE TA		2/21/97 - Wood Furniture Manufacturing Operations (w/ sources emitting > 50 tons HAPs in 1996)
Compliance Date		12/15/96 - Magnetic Tape Manufacturing (w/o new control device)	1/25/97 - Chrome Electroplating (hard & anodizing)	
O/O: Notice of Performance Test				
EPA/State: Approval of Site-Specific Test Plan				
Performance Test				
Compliance Status Reports				

TIMELINE CATEGORY	Mar-97	Apr-97	May-97	Jun-97
Applicability Date for New Sources				
Effective Date				
O/O: Initial Notification Due				
O/O: Submit Special Compliance Monitoring or Implementation Plans				
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans	3/22/97 - Secondary Lead Smelting			<u>6/18/97</u> - Petroleum Refining (for those choosing emissions averaging)
O/O: Request for Compliance Extension	3/8/97 - Epoxy Resins and Non-Nylon Polyamides Production			6/23/97 - Secondary Lead Smelting
EPA/State: Approval of Request for Compliance Extensions	3/2/97 - Halogenated Solvent Cleaning 3/15/97 - Magnetic Tape Manufacturing (w/new control device) 3/16/97 - Gasoline Distribution 3/16/97 - Shipbuilding and Ship Repair Facilities 3/24/97 - SOCMI			<u>6/8/97</u> - Epoxy Resins and Non- Nylon Polyamides Production
Compliance Date		<u>4/22/97</u> - SOCMI F&G		
O/O: Notice of Performance Test			5/14/97 - Magnetic Tape Manufacturing (w/o new control device) 5/25/97 - Chrome Electroplating (hard & anodizing)	
EPA/State: Approval of Site-Specific Test Plan				6/13/97 - Magnetic Tape Manufacturing (w/o new control device) 6/24/97 - Chrome Electroplating (hard & anodizing)
Performance Test				6/13/97 - Magnetic Tape Manufacturing (w/o new control device)
Compliance Status Reports				

TIMELINE CATEGORY	Jul-97	Aug-97	Sep-97	Oct-97	Nov-97
Applicability Date for New Sources					
Effective Date					
O/O: Initial Notification Due			<u>9/1/97</u> - Aerospace		
			Manufacturing and Rework Facilities		
O/O: Submit Special Compliance Monitoring or		8/12/97 - Magnetic Tape Manufacturing			
Implementation Plans		(w/o control device: submitting a plan identifying parameters to be monitored for			
		capture efficiency)			
EPA/State: Review/Approve Special Compliance					
Monitoring or Implementation Plans					
O/O: Request for Compliance Extension		8/18/97 - Petroleum Refineries: Other			
oro. Request for compliance Extension		Sources Not Directly Listed			
EPA/State: Approval of Request for Compliance			<u>9/17/97</u> - Petroleum Refineries: Other Sources		
Extensions			Not Directly Listed		
			<u>9/21/97</u> - Secondary Lead		
			Smelting		
Compliance Date	<u>7/31/97</u> - Polymers & Resins				<u>11/21/97</u> - Wood
	I (Equipment Leaks) 7/31/97 - Polymers & Resins				Furniture Manufacturing Operations (w/ sources
	IV (Equipment Leaks)				emitting > 50 tons HAPs
					in 1996)
O/O: Notice of Performance Test		<u>8/20/97</u> - SOCMI F&G			
EPA/State: Approval of Site-Specific Test Plan					
Performance Test	7/24/97 - Chrome		9/19/97 - SOCMI F&G		
i diformation rest	Electroplating (hard &				
	anodizing)				
Compliance Status Reports		8/12/97 - Magnetic Tape Manufacturing	<u>9/19/97</u> - SOCMI F&G	<u>10/22/97</u> -	
		(w/o new control device)		Chrome Electroplating	
				(hard &	
				anodizing)	

MASTER COMPLIANCE TIMELINE				
TIMELINE CATEGORY	Dec-97	Jan-98	Feb-98	Mar-98
Applicability Date for New Sources				
Effective Date				
Enective Date				
O/O: Initial Notification Due				
O/O: Submit Special Compliance Monitoring or	12/10/97 - Magnetic Tape Manufacturing (w/o control device:			3/5/98 - Polymers and Resins Group
Implementation Plans	submitting an alternative limit when a coating operation is not occuring)			I (emissions averaging) <u>3/12/98</u> - Polymers and Resins
				Group IV (emissions averaging)
EPA/State: Review/Approve Special Compliance			<u>2/8/98</u> - Magnetic Tape Manufacturing (w/o control device: submitting an	
Monitoring or Implementation Plans			alternative limit when a coating	
	10 7/07 W 15 ': M () : 0 : ()		operation is not occuring)	
O/O: Request for Compliance Extension	12/7/97 - Wood Furniture Manufacturing Operations (for sources emitting < 50 tons HAPs in 1996)			
	12/16/97 - Shipbuilding and Ship Repair Facilities			
EPA/State: Approval of Request for Compliance				3/7/98 - Wood Furniture
Extensions				Manufacturing Operations (for sources emitting < 50 tons HAPs in
				1996)
Compliance Date	12/2/97 - Halogenated Solvent Cleaning			3/8/98 - Epoxy Resins and Non-
	12/15/97 - Gasoline Distribution 12/15/97 - Magnetic Tape Manufacturing (w/new control device)			Nylon Polyamides Production
	12/16/97 - Shipbuilding and Ship Repair Facilities			
	12/23/97 - Secondary Lead Smelting	4/4/00		
O/O: Notice of Performance Test		<u>1/1/98</u> - Halogenated		
		Solvent		
		Cleaning		
EPA/State: Approval of Site-Specific Test Plan			2/1/98 - Halogenated Solvent Cleaning	
Performance Test				3/2/98 - Halogenated Solvent
renormance rest				Cleaning
Compliance Status Reports		<u>1/21/98</u> - Wood		
·		Furniture (< 50 tons HAP)		
		IOIIS FIAF)		

TIMELINE CATEGORY	Apr-98	May-98	Jun-98
Applicability Date for New Sources			
Effective Date			
O/O: Initial Notification Due		5/30/98 - Printing and Publishing	
O/O: Submit Special Compliance Monitoring or Implementation Plans			
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans			
O/O: Request for Compliance Extension		5/4/98 - Aerospace Manufacturing and Rework Facilities 5/30/98 - Printing and Publishing	
EPA/State: Approval of Request for Compliance Extensions			6/30/98 - Printing and Publishing
Compliance Date			
O/O: Notice of Performance Test	4/14/98 - Gasoline Distribution 4/20/98 - Wood Furniture Manufacturing Operations (w/ sources emitting > 50 tons HAPs in 1996)	5/14/98 - Magnetic Tape Manufacturing (w/new control device) 5/15/98 - Shipbuilding and Ship Repair 5/21/98 - Secondary Lead Smelting	
EPA/State: Approval of Site-Specific Test Plan	4/20/98 - Wood Furniture Manufacturing Operations (w/ sources emitting > 50 tons HAPs in 1996)	5/14/98 - Gasoline Distribution 5/15/98 - Shipbuilding and Ship Repair Facilities	6/13/98 - Magnetic Tape Manufacturing (w/new control device) 6/21/98 - Secondary Lead Smelting
Performance Test		5/21/98 - Wood Furniture Manufacturing Operations (w/ sources emitting > 50 tons HAPs in 1996)	6/13/98 - Gasoline Distribution 6/13/98 - Magnetic Tape Manufacturing (w/new control device) 6/14/98 - Shipbuilding and Ship Repair Facilities 6/21/98 - Secondary Lead Smelting
Compliance Status Reports		5/2/98 - Halogenated Solvent Cleaning	SANOTARIT EVAN CITIVATIV

TIMELINE CATEGORY	Jul-98	Aug-98	Sep-98
Applicability Date for New Sources			
Effective Date			
O/O: Initial Notification Due			
O/O: Submit Special Compliance Monitoring or Implementation Plans		8/12/98 - Magnetic Tape Manufacturing (w/o control device: submitting a plan identifying parameters to be monitored for capture efficiency)	9/5/98 - Polymers and Resins Group I (pre- compliance report) 9/12/98 - Polymers and Resins Group IV (pre-compliance report)
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans	7/5/98 - Polymers and Resins Group I (emissions averaging) 7/12/98 - Polymers and Resins Group IV (emissions averaging)		
O/O: Request for Compliance Extension	7/1/98 - Off-Site Waste and Recovery Operations		9/5/98 - Polymers and Resins Group I (not for equip. leaks/compressors) 9/12/98 - Polymers and Resins Group IV (not for equip. leaks/compressors)
EPA/State: Approval of Request for Compliance Extensions	7/4/98 - Aerospace Manufacturing and Rework Facilities		
Compliance Date		<u>8/18/98</u> - Petroleum Refineries: Other Sources Not Directly Listed (for those choosing emissions averaging and for floating roof storage vessels)	9/1/98 - Aerospace Manufacturing and Rework Facilities
O/O: Notice of Performance Test	7/6/98 - Epoxy Resins and Non-Nylon Polyamides Production		9/17/98 - Petroleum Refineries: Other Sources Not Directly Listed (those choosing emissions averaging)
EPA/State: Approval of Site-Specific Test Plan		8/5/98 - Epoxy Resins and Non-Nylon Polyamides Production	
Performance Test			<u>9/4/98</u> - Epoxy Resins and Non-Nylon Polyamides Production
Compliance Status Reports	7/19/98 - Wood Furniture Manufacturing Operations (w/ sources emitting > 50 tons HAPs in 1996) 7/30/98 - Halogenated Solvent Cleaning	8/12/98 - Gasoline Distribution 8/12/98 - Magnetic Tape Manufacturing (w/new control device) 8/13/98 - Shipbuilding and Ship Repair Facilities 8/21/98 - Secondary Lead Smelting	

^a According to a July 29, 1997 memorandur Commercial Sterilization facilities is expecte

TIMELINE CATEGORY	Oct-98	Nov-98	Dec-98	Jan-99
Applicability Date for New Sources				
Effective Date				
O/O: Initial Notification Due				
O/O: Submit Special Compliance Monitoring or			12/10/98 - Magnetic Tape Manufacturing	
Implementation Plans			(with a control device: submitting an	
			alternative limit when a coating operation is not occuring)	
EPA/State: Review/Approve Special Compliance	10/5/98 - Polymers and Resins Group I (pre-		- cood and g	
Monitoring or Implementation Plans	compliance report)			
	<u>10/12/98</u> - Polymers and Resins Group IV (pre-compliance report)			
O/O: Request for Compliance Extension	i i i i i i i i i i i i i i i i i i i			
EPA/State: Approval of Request for Compliance	10/1/98 - Off-Site Waste and Recovery		12/12/98 - Polymers and Resins Group IV	
Extensions	Operations			
Extensions	10/5/98 - Polymers and Resins Group I (not			
	for equip. leaks/compressors)			
O P D. (42/7/09 Wood Furniture Monutesturing	
Compliance Date			<u>12/7/98</u> - Wood Furniture Manufacturing Operations (for sources emitting < 50 tons	
			HAPs in 1996)	
			12/8/98 - Ethylene Oxide Commercial	
0/0 N / 1 / D / 1 / 1 / 1			Sterilization Facilities ^a 12/30/98 - Aerospace Manufacturing and	
O/O: Notice of Performance Test			Rework Facilities	
EPA/State: Approval of Site-Specific Test Plan				<u>1/30/99</u> - Aerospace
				Manufacturing and
				Rework Facilities
B (
Performance Test				
Compliance Status Reports		<u>11/3/98</u> - Epoxy		<u>1/15/99</u> - Petroleum
Tomphanoo otatao nopono		Resins and Non-		Refineries: Other
		Nylon Polyamides		Sources Not Directly
				Listed

^a According to a July 29, 1997 memorandum from the Director of OAQPS, the compliance date for Ethylene Oxide Sterilization facilities is expected to move from December 8, 1997 to December 8, 1998

MASTER COMPLIANCE TIMELINE		1		_		_
TIMELINE CATEGORY	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99
Applicability Date for New Sources						
Effective Date						
2.1001.10 24.0						
O/O: Initial Notification Due						
O/O: Submit Special Compliance Monitoring or						
Implementation Plans						
EPA/State: Review/Approve Special Compliance	2/8/99 - Magnetic Tape Manufacturing					
Monitoring or Implementation Plans	(with a control device: submitting an					
	alternative limit when a coating operation is not occuring)					
O/O: Request for Compliance Extension	oberation is not occurring					
EPA/State: Approval of Request for Compliance						
Extensions						
Compliance Date			<u>4/22/99</u> - SOCMI	<u>5/30/99</u> - Printing and		<u>7/1/99</u> - Off-
•			(Wastewater)	Publishing		Site Waste and Recovery
						Operations
				5 (0 (00) W 15 ''		
O/O: Notice of Performance Test				<u>5/6/99</u> - Wood Furniture Manufacturing Operations		
				(for sources emitting < 50		
				tons HAPs in 1996)		
EPA/State: Approval of Site-Specific Test Plan				<u>5/6/99</u> - Wood Furniture		
				Manufacturing Operations (for sources emitting < 50		
				tons HAPs in 1996)		
Performance Test	2/28/99 - Aerospace Manufacturing and				<u>6/7/99</u> - Wood Furniture	
renormance rest	Rework Facilities				Manufacturing Operations	
					(for sources emitting < 50 tons HAPs in 1996)	
Compliance Status Reports	2/7/99 - Wood Furniture Manufacturing		<u>4/28/99</u> - Aerospace		TOUS HAES III 1990)	
	Operations (for sources emitting < 50 tons HAPs in 1996)		Manufacturing and Rework Facilities			
	10113 11473 111 1990)		Nework Facilities			
					1	1

TIMELINE CATEGORY	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99
Applicability Date for New Sources	9	54,50	233.00		
Effective Date					
O/O: Initial Notification Due					
O/O: Submit Special Compliance Monitoring or					
Implementation Plans					
EPA/State: Review/Approve Special Compliance					
Monitoring or Implementation Plans					
O/O: Request for Compliance Extension					
EPA/State: Approval of Request for Compliance					
Extensions					
Compliance Date	<u>8/18/99</u> - Petroleum Refineries (marine tank	<u>9/5/99</u> - Polymers and Resins Group I (not for equip. leaks/compressors)			
	vessels not electing emissions averaging)	<u>9/12/99</u> - Polymers and Resins Group IV(not for equip. leaks/compressors)			
O/O: Notice of Performance Test		9/19/99 - Marine Tank Vessel Loading Operations 9/27/99 - Printing and Publishing	<u>10/19/99</u> - SOCMI		
oron Notice of Ferromanice rest			(Wastewater) 10/27/99 - Off-Site Waste		
			and Recovery Operations		
EPA/State: Approval of Site-Specific Test Plan			<u>10/27/99</u> - Printing and Publishing	11/28/99 - Off- Site Waste and	
			3	Recovery Operations	
Performance Test			<u>10/20/99</u> - SOCMI	<u>11/26/99</u> -	<u>12/28/99</u> - Off-Site
			(Wastewater)	Printing and Publishing	Waste and Recovery Operations
Compliance Status Reports					

MASTER COMPLIANCE TIMELINE	I	F			
TIMELINE CATEGORY	Jan-00	Feb-00	Mar-00	Apr-00	May-00
Applicability Date for New Sources					
Effective Date					
O/O: Initial Notification Due					
O/O: Submit Special Compliance Monitoring or Implementation Plans					
EPA/State: Review/Approve Special Compliance Monitoring or Implementation Plans					
O/O: Request for Compliance Extension					
EPA/State: Approval of Request for Compliance Extensions					
Compliance Date					
O/O: Notice of Performance Test	1/5/00 - Polymers and Resins I 1/12/00 - Polymers and Resins IV 1/17/00 - Marine Vessel Tank				
EPA/State: Approval of Site-Specific Test Plan	Loading Operations 1/12/00 - Polymers and Resins Group IV	2/16/00 - Marine Tank Vessel Loading			
Performance Test		Operations 2/5/00 - Polymers and Resins Group I 2/12/00 - Polymers and Resins Group IV	<u>3/17/00</u> - Marine Vessel		
Compliance Status Reports	1/25/00 - Printing and Publishing	2/5/00 - Polymers and Resins Group I 2/12/00 - Polymers and Resins Group IV 2/26/00 - Off-Site Waste and Recovery Operations	Tank Loading Operations		<u>5/16/00</u> - Marine Tank Vessel Loading Operations

APPENDIX L MACTRAX

MACTRAX

- Used by the Regional Offices to transfer information to OAQPS.
- Identifies which State/Locals (S/L) are implementing each MACT standard:
 - thru Title V delegation
 - thru implementation agreements
 - by Regional Office
- Each Title V program will have a MACTRAX screen per standard
- The information collected in MACTRAX for FY 1997 from S/L's with delegation authority will be voluntary.
- The information to be collected in MACTRAX was included for the performance measures for the Office of Air Research FY 1997-98 Implementation Plan.
- Regions are expected to incorporate performance measures in their FY 1998 State agreements
 which would include providing (or at least requesting) the MACTRAX reporting information
 for the end of the FY 1997 reporting cycle.
- The Region should identify the States that are not providing the information by adding a note in the comment field of the delegation screen.
- The regions can use the source-specific information available in AIRS Facility Subsystem (AFS) as the summary of the source category-specific information needed in MACTRAX. State delegation information, which is not provided through AFS, will still need to be entered into MACTRAX on the same time schedule.